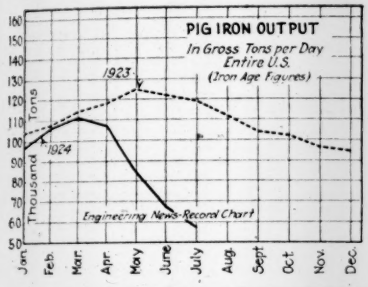
CONSTRUCTION NEWS

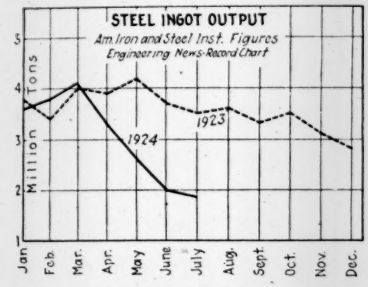
Engineering News-Record, August 28, 1924

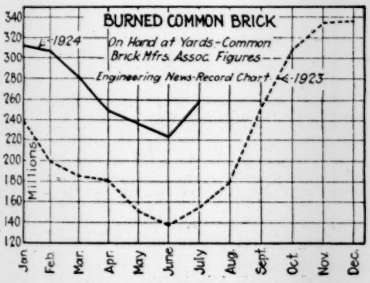
The Construction Barometer

Increase in Industrial Construction—Greater Number of Large Private Projects and Commercial Buildings Now Out for Bids—Fir, Lead and Linseed Oil Prices Firmer

STEEL mills are now operating at a rate of over 50 per cent of capacity as against 40 per cent last month. The general trend of production, however, has been downward during the past month, with the exception of cement, petroleum, copper, tin and certain of the textiles. The week of Aug. 21 shows a decided gain in the number and value of large industrial contracts awarded. There is also an increase in the number of large private construction projects now out for bids and in bids desired on commercial buildings valued at $150,000 and over. The two most important price moves which developed during the past week, were, advances in paint materials in the New York district and firmness in fir lumber prices in the Northwest.




STEEL INGOT OUTPUT
Am. Iron and Steel Inst. Figures
Engineering News-Record Chart
1923
1924
Million Tons
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.



Engineering News-Record Statistics

Minimum on water-works and excavations, $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
Aug. 7	$17,396,000	$21,618,000	$39,014,000
Aug. 14	23,960,000	22,786,000	46,746,000
Aug. 21	18,987,000	18,534,000	37,521,000
3 weeks	$60,343,000	$62,938,000	$123,281,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

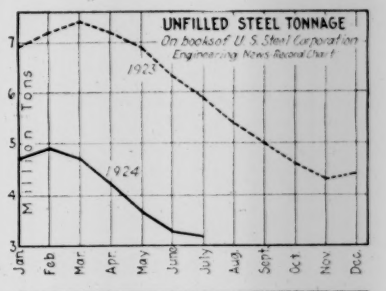
Week Ended	Commercial Public No.	Commercial Public Thousand	Commercial Private No.	Commercial Private Thousand	Industrial No.	Industrial Thousand
Aug. 7	12	$4,672	37	$18,026	26	$2,965
Aug. 14	11	2,491	47	18,386	15	2,757
Aug. 21	7	1,381	45	13,959	20	3,493
3 weeks	30	$8,544	129	$50,371	61	$9,215

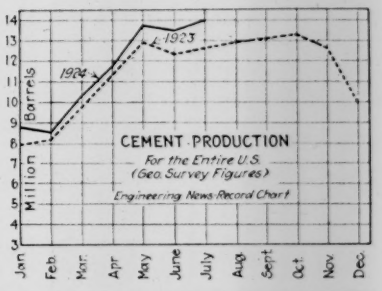
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

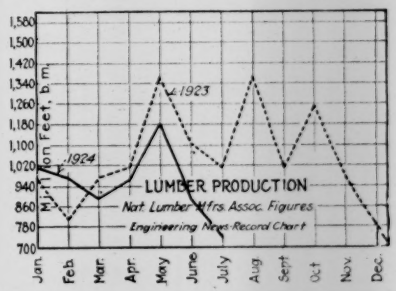
Week Ended	Private	Commercial Buildings	Streets and Roads	Waterworks and Sewers	All Public
Aug. 7	25	35	74	38	204
Aug. 14	29	45	80	44	217
Aug. 21	30	52	76	39	198

FIR LUMBER FIRMER IN NORTHWEST

	Quoted on Aug. 28 at	Price Was	On
Structurals, Pittsburgh, 100 lb.	$1.95 @ 2.15	$2.00 @ 2.15	Aug. 14
Cement, Chi., net bbl.	2.20	2.10	Jan. 24
Pine, N. Y., M.ft.	57.00	54.00	July 10
Fir, San Fran., M. ft.	31.00	32.00	Aug. 7
Common labor, hr.	.56	.55	Apr. 24


UNFILLED STEEL TONNAGE
On books of U. S. Steel Corporation
Engineering News-Record Chart
1923
1924
Million Tons
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.





PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Sept. 2	Cincinnati, O.	Aug. 21
Sept. 2	Long Island City, N. Y.	Aug. 28
Sept. 2	Manitowoc, Wis.	Aug. 28
Sept. 3	Cleveland, O.	Aug. 21
Sept. 3	Long Island City, N. Y.	Aug. 28
Sept. 4	St. Johnsville, N. Y. Adv. Aug. 14 to 28.	Aug. 14
Sept. 4	Suqualak, Miss.	Aug. 21
Sept. 4	Long Island City, N. Y.	Aug. 28
Sept. 4	Centralia, Ill.	Aug. 14
Sept. 4	New York, N. Y.	Aug. 28
Sept. 5	Brooklyn, N. Y.	Aug. 28
Sept. 9	Southern Pines, N. C.	Aug. 21
Sept. 9	Cushing, Okla.	Aug. 28
Sept. 17	North Collins, N. Y. Adv. Aug. 28.	Aug. 28
Sept. 19	Chicago, Ill.	Aug. 28
Sept. 22	Oakland City, Ind. Adv. Aug. 28.	Aug. 28

SEWERS

Bids Close		See Eng. News-Record
Sept. 1	Casper, Wyo.	Aug. 28
Sept. 2	West Roxbury (Boston P. O.) Mass.	Aug. 28
Sept. 2	Corsicana, Tex.	Aug. 21
Sept. 2	Cincinnati, O.	Aug. 21
Sept. 2	Silverton, (mail Pleasant Ridge Branch, Cincinnati P. O.), O.	Aug. 21
Sept. 2	Brookings, S. D.	Aug. 28
Sept. 2	Chicago, Ill.	Aug. 28
Sept. 3	North Milwaukee, Wis.	Aug. 28
Sept. 3	Brooklyn, N. Y.	Aug. 28
Sept. 3	Bergenfield, N. J. Adv. Aug. 21 and 28.	Aug. 28
Sept. 4	New Jersey Adv. July 24, Aug. 14 to 28.	July 24
Sept. 10	Ardmore, Pa. Adv. Aug. 28.	Aug. 28
Sept. 15	Waco, Tex.	Aug. 28
Sept. 17	Grand Rapids, Mich. Adv. Aug. 21 and 28.	Aug. 28

WASTE DISPOSAL

Bids Close		See Eng. News-Record
Sept. 8	Paterson, N. J.	July 31

BRIDGES

Bids Close		See Eng. News-Record
Aug. 29	Quogue, N. Y. Adv. Aug. 14 to 28.	Aug. 14
Aug. 29	Missouri	Aug. 28
Aug. 29	Medford, Mass.	Aug. 28
Aug. 30	Hoosick Falls, N. Y.	Aug. 28
Sept. 1	Perry, Okla.	Aug. 28
Sept. 1	Lakin, Kan.	Aug. 28
Sept. 2	Newton, Ia.	Aug. 28

Bids Close		See Eng. News-Record
Sept. 5	Buffalo, N. Y. Adv. Aug. 21 and 28.	Aug. 21
Sept. 8	California	Aug. 28
Sept. 8	Los Angeles, Calif.	Aug. 28
Sept. 10	Alabama	Aug. 21
Sept. 15	Wichita, Kan. Adv. Aug. 21 and 28.	Aug. 21
Sept. 17	Freehold, N. J. Adv. Aug. 28.	Aug. 28
Sept. 22	Los Angeles, Calif.	Aug. 28
Oct. 1	Merced, Calif. Adv. Aug. 28.	Aug. 28

DAMS

Sept. 10	Upper Jay, N. Y. Adv. Aug. 28.	Aug. 28

RAILWAYS

Aug. 30	Massachusetts	Aug. 28

EXCAVATION, DRAINAGE IRRIGATION

Sept. 2	Lake Charles, La.	Aug. 21
Sept. 11	Rye, N. Y. Adv. Aug. 21 and 28.	Aug. 28
Sept. 18	Kennett, Mo. Adv. Aug. 28.	Aug. 28
Oct. 7	Lake Charles, La.	Aug. 21
Oct. 14	Massachusetts	Aug. 7

STREETS AND ROADS

Aug. 29	Pelham, N. Y.	July 24
Aug. 29	Missouri	Aug. 28
Aug. 29	Punxsutawney, Pa.	Aug. 28
Aug. 30	Lake Charles, La.	Aug. 14
Aug. 30	Noblesville, Ind.	Aug. 28
Sept. 1	Holbrook, Ariz.	Aug. 21
Sept. 1	Lewistown, Pa.	Aug. 21
Sept. 1	Adel, Ia.	Aug. 28
Sept. 2	Sturgis, Ky. Adv. Aug. 28.	Aug. 28
Sept. 2	Oklahoma City, Okla.	Aug. 28
Sept. 2	Massachusetts	Aug. 28
Sept. 2	Idlewood, O.	Aug. 28
Sept. 2	Salinas, Calif.	Aug. 21
Sept. 2	Bedford, Ia.	July 31
Sept. 2	Austin, Tex.	Aug. 14
Sept. 2	Grantsville, W. Va.	Aug. 21
Sept. 2	Winona, Miss.	Aug. 21
Sept. 2	St. Paul, Minn.	Aug. 21
Sept. 2	Baltimore, Md. Adv. Aug. 21 and 28.	Aug. 21
Sept. 2	Los Angeles, Calif.	Aug. 28
Sept. 2	Columbus, O.	Aug. 28
Sept. 2	Toms River, N. J.	Aug. 28
Sept. 3	Delaware	Aug. 21
Sept. 3	New York, N. Y.	Aug. 28
Sept. 3	Cleveland, O.	Aug. 28
Sept. 3	Columbus, Kan.	Aug. 28
Sept. 3	Holdrege, Neb.	Aug. 28
Sept. 4	La Moure, N. D.	Aug. 28
Sept. 4	La Sueur Center, Minn.	Aug. 28
Sept. 4	Anthony, Kan.	Aug. 14
Sept. 4	Mobile, Ala.	Aug. 14
Sept. 4	Louisiana	Aug. 21
Sept. 5	Johnson City, Tex.	Aug. 21
Sept. 5	Gallitzin, Pa.	Aug. 28
Sept. 5	Sweetwater, Tex.	Aug. 28
Sept. 5	New York Adv. Aug. 21 and 28.	Aug. 28
Sept. 6	Columbus, O.	Aug. 28
Sept. 8	Oakland, Calif.	Aug. 28
Sept. 8	Oroville, Calif.	Aug. 28
Sept. 8	Trenton, N. J. Adv. Aug. 21 and 28.	Aug. 21
Sept. 8	Los Angeles, Calif.	Aug. 28
Sept. 8	Blair, Neb.	Aug. 28
Sept. 9	Pennsylvania Adv. Aug. 21 and 28.	Aug. 21
Sept. 9	Rockwall, Tex.	Aug. 21
Sept. 10	Massachusetts	Aug. 28
Sept. 10	Alabama	Aug. 14
Sept. 10	Alabama	Aug. 21
Sept. 10	Huntsville, Ala.	Aug. 21
Sept. 10	Delaware Adv. Aug. 28.	Aug. 28
Sept. 13	Abbeville, La.	Aug. 21
Sept. 15	Wayne, W. Va.	Aug. 21
Sept. 15	Madison, Ind.	Aug. 28
Sept. 16	Crosswicks, N. J.	Aug. 28
Sept. 16	New Orleans, La.	Aug. 14
Sept. 16	New Orleans, La.	Aug. 28

BUILDINGS—INDUSTRIAL

Aug. 29	Pittsburgh, Pa.	Aug. 28
Aug. 29	New Britain, Conn.	Aug. 28
Aug. 30	Providence, R. I.	Aug. 28
Sept. 1	Anderson, Ind.	Aug. 28
Sept. 1	Baltimore, Md.	Aug. 28

BUILDINGS—COMMERCIAL

Aug. 30	Houtzdale, Pa.	Aug. 14
Aug. 30	New Castle, Pa.	Aug. 24
Sept. 1	New Castle, Pa.	July 24
Sept. 1	Bridgeport, Conn.	Aug. 7
Sept. 1	Schenectady, N. Y.	Aug. 14
Sept. 1	Enfield, Conn.	Aug. 21
Sept. 1	Pittsburgh, Pa.	Aug. 28
Sept. 2	East Lansing, Mich.	Aug. 21
Sept. 2	Columbus, O.	July 24
Sept. 2	Columbus, O.	Aug. 14
Sept. 3	San Francisco, Calif.	Aug. 21
Sept. 3	Saginaw, Mich.	Aug. 21
Sept. 3	Omaha, Neb.	Aug. 28
Sept. 3	Cedar Rapids, Ia.	Aug. 28
Sept. 4	Ft. Dodge, Ia.	Aug. 28
Sept. 4	Edgartown, Mass.	Aug. 28
Sept. 4	Morris Plains, N. J.	Aug. 7
Sept. 4	San Jose, Calif.	Aug. 14
Sept. 4	Salisbury, Md.	Aug. 28
Sept. 4	Phila., Pa.	Aug. 28
Sept. 4	Camden, N. J.	Aug. 28
Sept. 5	East Boston (Boston P. O.) Mass.	Aug. 28
Sept. 6	Milwaukee, Wis.	Aug. 28
Sept. 6	Madison, Wis.	Aug. 28
Sept. 7	San Antonio Tex.	Aug. 14
Sept. 8	Cedar Rapids, Ia.	Aug. 14
Sept. 8	Cedar Rapids, Ia.	Aug. 21
Sept. 9	Cedar Rapids, Ia.	Aug. 21
Sept. 10	Springfield, Mo.	Aug. 14
Sept. 10	Ardmore, Pa.	Aug. 28
Sept. 15	York, Pa.	Aug. 14
Sept. 15	Schenectady, N. Y.	Aug. 28
Oct. 1	Groton, Conn.	Aug. 28
Oct. 11	Groton, Conn.	Aug. 7

FEDERAL GOVERNMENT WORK

Aug. 30	Water Stills—Memphis, Tenn.	Aug. 7
Sept. 2	Chutes, etc.—Honolulu, H. I.	July 3
Sept. 2	Waterworks, etc.—Oteen, N. C. Adv. Aug. 7 to 28.	Aug. 7
Sept. 2	Post Office—Wilkes-Barre, Pa.	Aug. 14
Sept. 2	Storehouse—Chelsea, Mass.	Aug. 21
Sept. 3	Dredging—Detroit, Mich. Adv. Aug. 7 to 28.	Aug. 7
Sept. 3	Lock Gate—Pittsburgh, Pa. Adv. Aug. 7 to 28.	Aug. 7
Sept. 3	Boiler—Greenville, Ill.	Aug. 28
Sept. 4	Road—California	Aug. 28
Sept. 8	Dredge Tenders—Jacksonville, Fla. Adv. Aug. 14 to 28.	Aug. 14
Sept. 9	Remodeling—Wheeling, W. Va. Adv. Aug. 28.	Aug. 28
Sept. 11	Wharf—Boston, Mass.	Aug. 28
Sept. 15	Courthouse—Marietta, O.	Aug. 28
Sept. 16	Dredging—Weymouth, Mass. Adv. Aug. 21 and 28.	Aug. 28
Sept. 16	Septic Tanks, etc.—Knoxville, Ia.	Aug. 28
Sept. 16	Pumping Plant—Wash., D. C.	Aug. 14
Sept. 16	Dredging—Boston, Mass. Adv. Aug. 21 and 28.	Aug. 21
Sept. 24	Towers—Vashon Island, Wash.	Aug. 28
Sept. 24	Building—San Diego, Calif.	Aug. 28
Sept. 25	Metal Works — Louisville, Ky. Adv. Aug. 28.	Aug. 28
Sept. 29	Turbines, etc.—Wash., D. C.	Aug. 28
Oct. 1	Water Discharge Loop—Pearl Harbor, H. T.	Aug. 14
Oct. 1	Widening Channel — Troy, N. Y.	Aug. 28

UNCLASSIFIED

Aug. 29	Wall—Trenton, N. J.	Aug. 28
Sept. 2	Heating and Ventilating System—New York, N. Y.	Aug. 28
Sept. 2	Sea Wall and Beach—Mississippi	Aug. 21
Sept. 3	Pavilion—Elizabeth, N. J. Adv. Aug. 28.	Aug. 28
Sept. 8	Tunnel—Santa Cruz, Calif.	Aug. 28
Sept. 9	Retaining Wall and Boat Landing—St. Louis, Mo.	Aug. 14
Sept. 15	Bushing Insulators—Melbourne, Victoria, Australia	July 10
Sept. 16	Retaining Wall and Boat Landing, etc.—Forest Park (Pierce City P. O.), Mo.	Aug. 28
Sept. 16	Heating System—Owatonna, Minn.	Aug. 28
Oct. 20	Insulators—Melbourne, Victoria, Australia Adv. Aug. 14 to 28.	Aug. 14

MATERIAL AND EQUIPMENT

Sept. 2	Tractor and Snow Plow—Manitowoc, Wis.	Aug. 28
Sept. 2	Concrete—St. Paul, Minn.	Aug. 28
Sept. 2	Underground Cable — Kenosha, Wis.	Aug. 28
Sept. 3	Paving Blocks—Brooklyn, N. Y.	Aug. 28
Sept. 9	Dragline Machine—Greenville, Miss. Adv. Aug. 21 and 28.	Aug. 21

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

La., Cotton Port — Making plans for waterworks and electric light plant, $50,000. H. A. Mentz, Magnolia, Miss., consult. engr.

Ia., Oxford—Rejected bids Aug. 5, for 1,200 ft. 12 in. deep well. Will readvertise. H. R. Green Co., 208 Bever Bldg., Cedar Rapids, engr. Noted July 31.

Ky., Russell—Chesapeake & Ohio R.R., 825 East Main St., Richmond, Va., plans 500,000 gal. steel water treating plant, here. $65,000. C. W. Johns, ch. engr.

O., Akron—Summit Co. plans 46,200 ft. 6- to 12-in. mains, etc., in Sanitary Impvt. 18, $133,000; 40,750 ft. 4- to 12-in. in Sanitary Impvt. 15, Contr. 2, $94,000; 10,100 ft. 6- to 12-in. in Sanitary Impvt. 22, $37,000; 3,400 ft. 6 and 12 in. in Sanitary Impvt. 29, $10,000; 49,000 6- to 12-in. in Sanitary Impvt. 20, $148,000. Barstow & McQurdy, 321 Ohio Bldg., Akron, engrs.

O., Magadore—See "Sewers."

Neb., College View—Election Aug. 28, $20,000 bonds to extend mains, etc.

Wis., La Crosse — Making preliminary plans approximately 2,000 lin.ft. 24 in. c.i. mains from pumping station to Pine St. $25,000. C. C. Congdon, City Hall, engr.

Ore., Portland—Making plans for high pressure system of fire mains in business section. E. C. Willard, 53 Ella St., consult. engr.

Calif., Bakersfield—Fairfax School Dist., L. S. Abel, clk. plans to purchase 1 electric pressure pumping plant, 500 gal. capacity per hr., 500 gal. tank, also approximately 140 ft. 2 in. and 400 ft. 1½ in. galvanized iron pipe.

Calif., Glendale—Plans election $550,000 bonds constructing new mains and reservoir.

Calif., Long Beach—Plans to purchase water pipe. $200,000. C. Shaw, ch. engr. for City Water Dept.

Calif., Newport Beach—Plans 1,500,000 gal. reservoir and 12 and 14 in. iron main extensions.

Calif., Santa Cruz—Plans to purchase 11,000 ft. 4, 6 and 8 in. Class B c.i. pipe, bell and spigot joints, etc. S. A. Evans, city clk.

N. S., Sydney—Soon takes bids improving waterworks and bridges. $200,000.

BIDS DESIRED

Mass., Boston—Aug. 26, by Pub. Wks. Dept., Water Service, laying and relaying mains in Roxbury and Dorchester. $15,000. J. A. Rourke, comr.

N. Y., Brooklyn—Sept. 3, by E. Riegelmann, boro. pres., Boro Hall, sewers in 68th St., Brooklyn, Nostrand and Clarkson Aves.

N. Y., Brooklyn—Sept. 5, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Kenmore and McKay Places, Flatlands, Louisiana, 7th and 24th Aves., Avenues P, Q and S, Essex, Ryder, 51st, 64th, 71st, 80th, 81st, 82nd, East 27th, 98th, West 9th and 12th Sts., here.

N. Y., Long Island City—Sept. 3, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Laurel Hill Blvd., Middleburg and Skillman Aves., Barnett, Bliss, Carolin, Locust and Packard Sts., here.

N. Y., Long Island City—Sept. 4, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Park Lane and Utopia Parkway, Lonsdale and 7th Aves., Hinman, Bowne, Zion, 120th, 147th, 160th, and 212th Sts., here.

N. Y., Long Island City—Sept. 2, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Astoria, Anable, Polk and Roman Aves., 37th and 42nd Sts., here.

N. Y., New York—Sept. 4, by N. H. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Dewitt Pl. and Bronx Blvd., Amundson, Adee, Arnow, Bissell, Colden, Cruger, Edson, Kingsland, Lurting and Seymour Aves., Hoxie and East 225th St.s.

N. Y., North Collins—Sept. 17th by State Hospital Comn., Albany earth dam and portion of water supply at Gonwanda State

Waterworks (Continued)

Homeopathic Hospital, here. L. M. Farrington, secy; adv. E. N.-R. Aug. 28.

Ind., Oakland City—Sept. 22, by Oakland City Water Co., dam, reservoir, 10 in. pipe line and intake. Rush & Everson, Room 19, Natl. Blk., Terre Haute, engrs.; adv. E. N.-R. Aug. 28.

Ill., Chicago — Sept. 19, by Dept. Pub. Wks., Room 406, City Hall, 2 complete steam driven centrifugal pumping units, one for Central Park Avenue Pumping Station and other for Springfield Avenue Pumping Station. $160,000. J. Ericson, 402 City Hall, engr. Noted Aug. 7.

Wis., Manitowoc — Sept. 2, by A. H. Zander, city clk., 1 carload 6 and 8 in. Class C and De Lavand c.i. pipe and standard fittings.

Tex., Dallas—Taking bids seven thousand five hundred ¾ in. straight water meter couplings, three thousand four hundred ¾ x ¾ in. disc. round U. S. water meters one hundred 1 ft. round U. S. meters, miscellaneous, 5, 6, 10, and 12 in. hub end gate valves. E. A. Kingsley, city engr.

Okla., Cushing—Sept. 9, by T. F. Hough, city clk., improving waterworks, sewers and sewage disposal plant, Black & Veatch, 701 Mutual Bldg., Kansas City, Mo., consult. engrs.; adv. E. N.-R. Aug. 28.

Calif., Los Angeles—Sept. 2, by Supervs. Los Angeles Co., improving Las Flores Canyon Rd., 28,600 cu.yd. clearing and grubbing, 8,296 cu.yd. rock excav., 8,635 sq.yd. place oil, 2,000 lin.ft. guard rail, etc.

BIDS RECEIVED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., Aug. 18, automatic pumping station at intersection of Beach Channel Dr. and Hammels Blvd., from Tunnel Constr. Co., 709 6th Ave., New York, wire and cone screen. $798,004, Rex band $440,004. Noted Aug. 14.

Wis., Milwaukee — Dept., Pub. Wks., Aug. 7, c.i. mains in various streets, from J. B. Forrestal Co., 215 15th St., 3,341 ft. 6 in. at $1.09, 574 ft. 8 in. $1.14, 647 ft. 12 in. $1.47; from Szukalski & Maltke, 1089 Amer. Ave., 12,207 ft. 6 in. at $0.89, 9,773 ft. 8 in. $0.95, 60 ft. 12 in. $1.50.

Wash., Seattle—Bd. Pub. Wks., Aug. 8, constructing Honey Creek diverting conduit, in connection with municipal water supply, from L. Coluccio, 1642 Lane St., $53,495. Engrs. est. $55,000.

CONTRACTS AWARDED

Mass., Boston—Furnishing 100,000 lbs. iron castings for Pub. Wks. Dept., Water Serv., to E. L. Le Barron Fdry. Co., Commercial Yard, Brockton, $0.0283 per lb.

La., Lafayette — Improving waterworks, electrical equipment, to Westinghouse Electric Mfg. Co., Pittsburgh, Pa., $19,292, two 600 hp. engines, to Busch-Sulzer Bros. Diesel Engine Co., 3300 South 2nd Ave., St. Louis, Mo., $72,908. Noted Mar. 20.

La., Shreveport — Constructing spillway gate house, dam and impervious fill abutments for waterworks, to Kaucher & Hosges, Exch. Bldg., Memphis, Tenn., $226,981, reinforcement of distributing system, to E. J. Merkel Contg. Co., 1733 Walnut St., Kansas City, Mo., $93,905. Noted June 26.

Mich., Grand Rapids—Constructing 2,500 ft. 60 in. rein.-con. clear water conduit and suction wells, etc., 11,650 cu.yd. earth and 2,525 cu.yd. rock excav., etc., to McHugh Bros., Springfield, O., $112,247. Engrs. est. $115,000. Noted July 24.

Wis., Hurley—J. H. A. Brahtz, engr., 409 Metropolitan Opera House Bldg., St. Paul, Minn., will organize company to construct filtration plant and pumping station at Lake Lavina, for city, by day labor. $65,000. Former contract abandoned. Noted May 1.

Ia., Ames—For 100,000 gal. rein.con. storage reservoir, and 200,000 gal. elevated tank, to Pittsburgh-Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, $41,987; 200 tons Class B, c.i. pipe and specials, to Amer. Cast Iron Pipe Co., Acipco, Birmingham, Ala., 12 ft. lengths $53.90 per ton and 16 ft. lengths $54.90; pump house, to F. M. Eller, Ames, $1,600; two 500 gal. booster pumps, and one 1,000 gal. centrifugal service pump, to G. C. Kahl, Kansas City, Mo., $3,816. Noted July 31.

Ia., North English—City clerk, 12,000 sq.yd. 4 in. c.i. pipe, hydrants, valves, etc., to O. Johnson, Iowa Falls. Engrs. est. $16,000. Noted July 31.

Neb., Otos—Twenty 4 in. two-way fire hydrants and 8,305 ft. 2, 4 and 6 in. c.i. mains, to Fremont Constr. Co., Fremont, $9,357; 40,000 gal. steel tank on 100 ft. tower, to Omaha Bridge Co., 1308 Webster St., $5,360.

Okla., Owasso—General contract waterworks, etc., to N. S. Sherman Machine & Iron Wks., 18 East Main St., Oklahoma City, $23,625. Engrs. est. $25,000.

Tex., Dallas—Bd. City Comrs., reservoir dam, etc. near Garza, Denton Co., to W. E. Callahan Constr. Co., Southwestern Life Bldg., $3,093, 488. Noted July 17.

Ont., Forest — Standpipe and elevated tank for waterworks, to Horton Steel Co., Bridgeburg. Engrs. est. $50,000.

Sewers

PROPOSED WORK

Pa., Shamokin—Election in November to vote on $75,000 bonds for sewers.

O., Akron—Summit Co. plans 19,800 ft. 8- to 12-in. sewer in Sanitary Impvt. 27, $52,000; 1 mi. 30- to 39-in. in Sanitary Impvt. 25, $100,000; 43,700 ft. 8- to 18-in. in Sanitary Impvt. 20, $122,000; 8,100 ft. 8- to 20-in. storm and sanitary sewers in Sanitary Impvt. 22, $22,000; 49,100 ft. 8- to 15-in. sewer and treatment plant in Sanitary Impvt. 18, $109,000. Barstow and McCurdy, 321 Ohio Bldg., Akron, engrs.

O., Kenmore—Plans 21,000 ft. 36- to 54-in. tile or segmental block trunk sewer in Outfall and Tuscarawus Valley, also sewage treatment plant, concrete substructure and brick superstructure. $600,000. Barstow & McCurdy, 321 Ohio Bldg., Akron, engrs.

O., Kent — Making surveys completing system, enlarging old sewers and building new treatment plant. Barstow & McCurdy, 321 Ohio Bldg., Akron, engr.

O., Magadore—Portage Co. (Ravenna) and Summit Co. (Akron), plans sewerage and water systems here. $100,000. Barstow & McCurdy, 321 Ohio Bldg., Akron, engrs.

Mich., Ferndale—Voted $146,000 bonds for extensions connected with main outlet into Lawson Drain. G. Jerome, 1331 Majestic Bldg., Detroit, engr.

Ill., Chicago—Plans removing old sewer and constructing 3.5 mi. brick and concrete sanitary and relief sewers, 3 to 11 ft. diam., in Loop Dist. $1,600,000. H. E. Hudson, 207 City Hall, engr. Noted July 24.

Wisconsin — Metropolitan Sewerage Comn., 508 Market St., Milwaukee, making plans 11,000 ft. 24 in. terra cotta sewer from Wauwatosa to West Allis. T. O. Hatton, c/o owner, engr.

Wis., New Holstein—Making plans sewage treatment plant with motors, pumps, sludge beds, etc. J. Donohue Co., Sheboygan, engr.

Wis., South Milwaukee — Making plans 1,800 ft. vitr. clay outlet sewer, also 30 x 90 ft. rein.-con. tanks to existing plant. $35,000. Alvord, Burdick & Howson, 7 South Dearborn St., Chicago, Ill., engrs.

Calif., Guadalupe—Plans election $25,000 bonds to enlarge present sewerage system and construct extensions with drainage system and outfall, in Guadalupe Sanitary Dist.

Calif., Hermosa Beach — Plans election $200,000 bonds, ocean outfall sewer. V. Staheli, city engr.

Calif., Oakland—Made plans 18,288 lin. ft. 8 in. sewers, forty-eight 8 in., and twenty-five 12 in. lampholes, 48 manholes, etc., in Fruitvale Garden Farm Tract. W. W. Harmon, city engr.

Ont., Ft. Erie — Voted $20,000 bonds equipment for sewage pumping station.

BIDS DESIRED

Mass., West Roxbury (Boston, P. O.)—Sept. 2, by Dept. Pub. Wks., Sewerage Div., City Hall, Boston, sewers in Stony Brook, Sect. 10A, Stellman Rd., private land and Washington St., here. $70,000. J. A. Rourke, comr. Noted Aug. 7.

N. J., Bergenfield—Sept. 3, by Mayor and Boro. Council, constructing sewers in Washington Ave. and various streets. T. F. Bowe, 110 William St., New York City, consult. engr.; adv. Aug. 28.

Pa., Ardmore—Sept. 10, at Commissioners Office, sanitary sewers sewage pumping station, 8 in. force main, etc., in Gulley Run water shed, Lower Merion Twp., Albright & Mebus, 1502 Locust St., Phila., engrs.; adv. E. N.-R. Aug. 28.

Mich., Grand Rapids—Sept. 17, by Director Pub. Serv., City Hall, constructing Logan St. Relief Sewer, Contracts J-3 and J-1. F. H. Locke, city mgr.; adv. E. N.-R. Aug. 28.

Ill., Chicago — Sept. 2, by Bd. Local Impvts., 1.75 mi. brick and tile sewer in 66th St., $39,000; and 2.25 mi. brick and tile sewer in 67th Pl., $64,000. H. E. Hudson, 207 City Hall, engr.

Wis., North Milwaukee—Sept. 3, by W. E. Chase, city clk., 5,861 lin.ft. 36, 42 and 48 in. vitr. or concrete storm sewers in Cedarburg Rd., 33rd St., Wallace and Sheridan Aves. $30,000 to $35,000. H. C. Webster, 216 West Water St., Milwaukee, engr.

S. D., Brookings—Sept. 2, sewage disposal plant, raising level of septic tanks, about 350 cu.yd. rein.-con., sewage pumping station, pump equipment comprising three 4-in. centrifugal pumps, trickling filter 70 x 80 ft. with fixed nozzels, sludge bed, vitr. pipe sewer. $25,000. Former bids rejected. Chenoweth & Rettinghouse, Paulton Blk., Sioux Falls, engrs. Noted July 31.

Wyo., Casper—Sept. 1, by City Council, 8 in. sewer and 10- to 15-in. trunk sewers in 4 new sanitary sewer districts. $130,000. Bids on vitr. clay and concrete tile pipe. E. W. Fassett, city engr.

Tex., Waco—Sept. 15, by T. P. Stone, Mayor and Bd. City Comrs., sewage treatment plant. $350,000. Terrell Bartlett, Engrs., Inc., 612 Calcasieu Bldg., San Antonio, engrs. V. R. Koch, city engr. Noted June 26.

Okla., Cushing—See "Waterworks."

Calif., San Francisco—Sept. 3, by Bd. Pub. Wks., 531 lin.ft. 2 ft. 6 in. x 3 ft. 9 in., and 1,347 lin. ft. 2 ft. x 3 ft. rein.-con. sewer, 2,252 lin.ft. 6, 8 and 21 in. ironstone sewer, etc., in Great Highway between Ortsga and Rivera Sts., for City and San Francisco Co. To exceed $28,000. M. M. O'Shaughnessy, city engr. Noted Aug. 14.

Calif., Santa Barbara—City Council taking bids 3,800 lin.ft. 42 in. outfall sewer. To exceed $200,000. G. D. Morrison, city engr.

BIDS RECEIVED

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, Aug. 18, sewers in Elm St., from J. Fiorini & V. Stiotta, 138 St. Paul Ave., Tompkinsville, $4,843; Roosevelt Ave., from J. Massa, 141 Richmond St., West New Brighton, $7,185; Jackson Ave., from G. Orricco, 500 Britton Ave., Concord, $2,422. Noted Aug. 14.

Pa., Elkins Park — Main intercepting sewer through Cheltenham Twp., Sect. 1, from A. L. Anderson & Bros., Altoona Trust Bldg., Altoona, $143,065; Sect. 2, from Neely Bros., & Russell Inc., Oxford and Wakeling Sts., Phila., $149,765, Sects. 3 and 4 from T. Pietro, Morgantown, W. Va., $127,600, and $89,024 respectively. Noted July 24.

Ill., Niles Center — Bd. Local Impvts., 18,360 ft. 36- to 84-in. rein.-con. and 5,890 ft. 20- to 30-in. vitr. clay sewers, etc., in various streets, from E. Harding, Racine, Wis., $521,040. Engrs. est. $500,000. Noted July 31.

CONTRACTS AWARDED

N. Y., Long Island City—M. E. Connelly, pres. Queens Boro., Queens Subway Bldg., to Kennedy & Smith, Inc., 93 Amity St., Flushing, sewers in Hunt St. $5,328, Penrod St. $2,074, Bowné Ave. $4,278, and Locke Ave. $6,769; to J. Gallo, 203 Division St., Brooklyn, in Market St. $2,082; to J. F. Clancy, 460 Lockwood St., Astoria, in 169th St. $4,017; to Johnson & McHugh, 37 Britton Ave., Elmhurst, in Parsons Blvd. $5,250; to P. J. Greenough Eng. Co., in 131st St. $1,667 and Tuckahoe Ave. $4,765. Noted Aug. 14.

Md., Baltimore—Mayor and City Council, 693 ft. 15- to 20-in. sewers in Sewer Dist. H-8, Contr. 65, to A. J. Boyle, Amer. Bldg., $31,091; 2,475 ft. 6 in. sewer in Sect. 1, Dist. J-7, Trunk Sewer, Contr. 214, to D. C. McAleer, Phoenix Bldg., $20,030. Noted Aug. 7.

Va., Richmond — Portions of Shockoe Creek Flume or Sewer, to Whiting-Turner Constr. Co., Inc., Stewart Bldg., Baltimore, Md., $760,035, and Smith Bros., Inc., Amer. Natl. Bank Bldg., $588,620. Engrs. total est. $1,652,620. Noted Aug. 21.

La., Baton Rouge—Storm sewers, to C. B. Stewart, Baton Rouge, $75,000; to J. B. McCrary Eng. Co., Citizens & Savings Bank Bldg., Atlanta, Ga., $20,000; to H. A. Forest, New Orleans, $5,500; and to Thibodaux & Harrison, Baton Rouge, $2,000.

O., Akron—Summit Co., 1½ mi. 36- to 63-in. vitr. segmental block trunk sewer for storm drainage only in East Park Blvd., et al, to E. and W. McShaffrey Co., 574 Rhodes Ave., $112,325. Engrs. est. $142,000. Noted July 31.

O., Cleveland—Constructing 2,150 ft. of 6 ft. concrete sewer in Tampa Ave., to C. W. Jackson, 1318 East 84th St., $36,416.

O., Euclid—Sewer in 4 streets, to A. C. Hattendorf, Stop 14, Euclid Ave., $34,833.

Sewers (Continued)

O., Warren—Bd. of Control, constructing sewer in North Tod Ave. to H. J. Poff, Warren, $24,348.

Wis., Milwaukee — J. H. Fowler, secy. Sewerage Comn., 508 Market St., steam heating system in filter and dryer house, Jones Island, to Wenzel & Henoch, 498 27th St., $34,900. Noted July 24.

Wis., Neenah—Sewers in Caroline, Elm, Harrison, Henry and High Sts., 1st, 3rd, 11th and Winneconne Aves., to W. O. Bahr, 1201 Franklin St., Manitowoc, $27,228.

Ill., Highland Park—Sanitary sewerage system, etc., in Southeast Highland Park, to C. M. Porter Co., 111 West Washington St. Engrs. est. $115,000.

Ia., Pocahontas — For 48,960 ft. 6 in. drain tile, 9 type "A" tile intakes, etc., in Primary Rd. 339, to A. Eikwald, Emmetsburg.

Minn., St. Paul—For sewers in Scheffer Street Sewerage System 2, 15,812 lin.ft. 12- to 72-in. pipe, 71 catch basins, 61 standard manholes, etc., to O'Neal & Preston, 607 Exchange Bank Bldg., $114,700.

Neb., Omaha—Storm sewer in Dist. 854, to Jones Eng. & Constr. Co., 704 Brandis Theatre Bldg., $341,000. Engrs. est. $350,000.

Okla., Tulsa—City **(e.e. means engrs. est.)**, to H. L. Cannady Co., 122 South Lewis St., North Slope Sanitary Main Sewer. Contr. 1, 9,725 ft. 27 in. vitr. tile and 1,152 ft. 28 in. c.i. pipe, 2,949 cu.yd. earth, 1,650 cu.yd. loose rock, and 3,000 cu.yd. solid rock excav., etc., $65,018, e.e. $75,112, East Slope Sanitary Main Sewer, Contr. 7, 8,687 ft. 18- to 27-in. vitr. clay and 624 ft. 28 in. c.i. pipe, 11,005 cu.yd. earth, 2,000 cu.yd. loose rock, and 2,700 cu.yd. solid rock excav., etc., $58,765, e.e. $65,263, Outlet Main Sewer fro East Slope Disposal Plant to Bird Creek, Contr. 5, 9,472 ft. 27 in. vitr. clay and 804 ft. 28 in. c.i. pipe, 125 cu.yd. rein.-con., 60 cu.yd. plain concrete, 9,972 cu.yd. earth, 400 cu.yd. loose rock and 250 cu.yd. solid rock excav., etc., $55,236, e.e. $66,389; to W. B. Carter, Tulsa, North Side Sanitary Sewer, Contr. 2, 19,720 ft. 8- to 24-in. vitr. clay and 108 ft. 24 in. c.i. pipe, 11,134 cu.yd. earth, 1,870 cu.yd. loose rock and 1,970 cu.yd. solid rock excav., etc., $39,942, e.e. $49,068, Contr. 3, 19,530 ft. 8- to 21-in. vitr. clay pipe, 12,516 cu.yd. earth, 1,230 cu.yd. loose rock, and 1,620 cu.yd. solid rock excav., etc., $37,971, e.e. $48,720, Contr. 4, 7,024 cu.yd. earth, 5 cu.yd. loose rock and 125 cu.yd. solid rock excav., $44,598, e.e. $53,074, East Side Disposal Plant, Contr. 6, 4,702 cu.yd. earth, 70 cu.yd. loose rock and 135 cu.yd. solid rock excav., $41,754, e.e. $49,050, East Side Sanitary Sewer, Contr. 8, 25,280 ft. 8- to 15-in. vitr. clay pipe, 16,643 cu.yd. earth, 2,500 cu.yd. loose rock and 4,280 cu.yd. solid rock excav., etc., $51,448, e.e. $63,717, South Slope Sanitary Sewer, Contr. 9, 15,340 ft. 8- to 21-in. vitr. clay, 2,000 ft. 15- to 21-in. double strength vitr. clay and 60 ft. 18 in. Class A c.i. pipe, 13,830 cu.yd. earth, 500 cu.yd. loose rock and 1,050 cu.yd. solid rock excav, etc., $36,439, e.e. $45,260. Noted June 26.

Wash., Centralia — City Council, constructing trunk sewerage system and laterals in east and south portions of City, to R. M. Bardsen & Co., Longview, $128,451. Engrs. est. $200,000.

Calif., Los Angeles—Storm sewers in Mesa St. between 3rd and O'Farrell Sts., 9,969 ft. 4½- to 5½-in. cut concrete pipe, 2,852 ft. 12- to 27-in. rein.-con. and cement pipe, etc., to C. E. Green, Western Mutual Bank Bldg., $63,297; 8 in. vitr. sewer in 58th Pl. between Normandie and Denker Aves., to J. Artukovich, 614 North Bunker Hill Ave., 27,750. Noted Aug. 14.

Que., St. Therese de Blainville—J. L. Blanchard, town secy., sewage purification tank, to O. Fillion & Frere, 2985 St. Denis St., Montreal, $23,200.

Waste Disposal

PROPOSED WORK

Calif., Glendale—Plans election approximately $50,000 bonds for incinerator.

BIDS DESIRED

Mass., Lawrence—City taking bids for incinerator plant, Merrimack River in rear of City Home. $100,000.

Bridges

PROPOSED WORK

Conn., Fairfield—Town, and New York, New Haven & Hartford R.R., New Haven, plan widening Grasmere Bridge, 6 ft., $25,000. E. Gagel, ch. engr. railroad.

New Jersey — Freeholders Gloucester Co. (Woodbury) plans bridge over Newton Creek between Fairview and Gloucester. $125,000. W. C. Cattell, Woodbury, engr.

Mississippi — State Hy. Dept., Jackson, making preliminary plans concrete and steel bridge across Bay of Biloxi, in Jackson and Harrison Counties, $375,000. H. C. Dietzer, highway engr.

O., Barberton—Plans viaduct across Erie R.R. tracks, at Center St., north of Hopocan Ave. $50,000. Railroad will pay 65% of cost, city 17½%, and Summit Co. (Akron) 17½%. R. L. Turner, Cleveland, engr.

Kan., Kansas City—Wyandotte Co. plans bridge over Turkey Creek, $2,500, Betts Creek bridge on Klaw Valley Rd., $7,588, bridge over Muncie Creek on Kroge Rd., $6,000, bridge over Island Creek on Clarke Highway, $15,000, bridge off DeFries Rd. near Twin Bridge, $2,500, bridges over Marble Creek on Leavenworth Rd., $5,000 and $10,000; approaches and painting Bonner Springs Bridge, $8,000; box culvert east of Loring, $1,000, on road north of Bonner Springs, $4,000, on Santa Fe Rd. south of Turner, $4,000; repairing Little Kaw bridge east of Loring, $2,500, bridges at 5th St. $2,500, 12th St. $5,000, East Kansas Ave. $1,500, West Kansas Ave. $1,500 and Central Ave. $1,000.

Kan., Wichita—Voted $140,000 bonds for concrete bridge at North Seneca St. P. L. Brockway, City Bldg., engr.

Kan., Wichita — Making preliminary plans 12 concrete bridges over canal. Cost not to exceed $25,000 each. P. L. Brockway, City Hall, engr.

Neb., North Platte — City, c/o E. J. Vanderhoof, and Lincoln Co., c/o T. Lowe, Jr., voted $80,000 bonds constructing steel or concrete bridge north of here.

Okla., Oklahoma City—See "Streets and Roads."

Calif., Bakersfield—Kern Co., made plans rein.-con. bridge over Kern River, on Rosedale Highway. J. Thornton, co. surv.

Calif., Stockton—Plans bridge over Mormon Channel, at Washington St. $140,000 available. W. B. Hogan, city engr.

N. S., Sydney—See "Waterworks."

BIDS DESIRED

Mass., Medford — Aug. 29, by Mayors Office, Medford Bldg., Medford Sq., rebuilding Harvard Ave. Bridge. E. A. Gaffey, street comr.

N. Y., Hooslck Falls—Aug. 30, by Town Bd., Dublen Bridge, 184 ft. long, 24 ft. roadway over White Creek, 775 cu.yd. concrete, 197,000 lb. structural steel and 38,000 lb. reinforcing. G. S. Thompson, 257 Bway., Troy, engr.

N. J., Freehold—Sept. 17, by Bd. Freeholders Monmouth Co., constructing Bridge U-11, 26 ft. I-beam span, etc. G. K. Allen, Jr., 60 Broad St., Red Bank, co. engr.; adv. E. N.-R. Aug. 28.

Ia., Newton—Sept. 2, by Clerk Jasper Co., one 3 span 20 x 90 ft. pony truss bridge, 283,900 lb. structural steel and 54,200 lb. reinforcing. $42,000. R. MacMurray, Newton, engr.

Kan., Lakin—Sept. 1, by Clerk Kearney Co., six 90 ft. span pony truss bridge, eight 19 ft. pile bents over Arkansas River, on Sect. 11-J 24-R 35-W. H. L. Everett, co. engr.

Missouri—Aug. 29, by State Hy. Dept., Jefferson City, bridges in Granby, Audrain, Henry, Johnson, Saline, Callaway, Vernon, Grundy, Marion, Worth, Bates and Ray Counties. B. H. Piepmeier, state highway engr.

Okla., Perry—Sept. 1, by M. B. Schultz, clk. Noble Co., 24 ft. I-beam rein.-con. trestle, 30 ft. wide. $25,000. C. A. Wood, Stillwater, engr.

California—Sept. 8, by State Hy. Dept., Sacramento, four 50 ft. and five 22 ft. span, rein.-con. girder bridge over Cottonwood Creek, Kern Co. R. M. Morton, state highway engr. Noted Dec. 27.

Calif., Los Angeles—Sept. 8, by Supervs. Los Angeles Co., 10 span, 600 ft., timber and steel bridge, Garvey Ave. $40,000. W. D. Armstrong, Hall of Records, Los Angeles, engrs.

Calif., Los Angeles—Sept. 22, by Bd. Pub. Wks., constructing river span, only of Macy St. viaduct, 3,250 cu.yd. concrete, 715,000 lb. reinforcing, etc.; also Macy St. viaduct 1,200 ft. long, with 215 ft. river arch span, 13,600 cu.yd. concrete, 1,145,000 lb. reinforcing. J. A. Griffin, city engr.

Calif., Merced—Oct. 1, by Merced Irrigation Dist., fabricating and erecting 5 large steel railway bridges, in Mariposa Co. H. P. Sargent, secy.; adv. E. N.-R. Aug. 28. Noted July 31.

Calif., Stockton—Sept. 12, by Supervs. San Joaquin Co., 126 ft. steel bridge with concrete piers and timber deck over Mormon Channel on Clark Rd. P. E. Quail, co. surv.

BIDS RECEIVED

New Jersey—State Hy. Comn., Trenton, constructing single leaf bascule span with 30 ft. clear roadway and 50 ft. clear channel way, concrete and timber substructure, timber approaches, and temporary bridge over Cedar Bonnet, Manahawken Bay, Ocean Co., from Krellwitz Constr. Co., 546 Paterson Plank Rd., North Bergen, 97.5% engrs. est. ($91,279). Noted Aug. 7.

South Dakota—State Hy. Comn., Pierre **(F.A.P. means Federal Aid Project)**, bridges on F.A.P. 166, McCook Co., from W. Barnhart Constr. Co., Salem, $4,346; on F.A.P. 180C, Corson Co., and 184A, Spink Co., from Glasser Constr. Co., Wahpeton, N. D., $29,843 and $2,112 respectively. Noted Aug. 7.

CONTRACTS AWARDED

Conn., Bristol—New York, New Haven & Hartford R.R., New Haven, bridge at Alder St., concrete work, to Lathrop & Shea, 185 Church St., New Haven; steel work, to Berlin Constr. Co., Depot Rd., Berlin. Engrs. est. at least $25,000. Noted July 24.

New Jersey—Atlantic Co. (Mays Landing) and Burlington Co. (Mt. Holly), reconstructing highway bridge spanning Mullica River at Lower Bank between counties, to Hill Constr. Co., 132 Hulme St., Mt. Holly, $114,996.

N. J., Camden — Constructing Kaighn Ave. Bridge, to Michael Straub & Kolyn Co., 47 South Bway., Pitman, $66,990. Noted Aug. 21.

Tennessee—See "Streets and Roads."

Alabama—See "Streets and Roads."

Tennessee—State Dept. Hys. & Pub. Wks., Nashville **(S.A.P. means State Aid Project, F.A.P. means Federal Aid Project)**, five 24 ft. span bridge and one 30 ft. bridge over Browne Creek, State Highway 24, Davidson Co., to G. B. Howard, foot of Shelby Ave., Nashville, $21,658; 5 bridges over 20 ft. span, F.A.P. 36-A, Fayette Co., to D. M. Sparkman & Co., Dyersburg, $45,804; 5 bridges over 20 ft. span, F.A.P. 18, Fayette Co., to Montgomery & Parker, Rockfort, Ind., $134,003; 2 bridges over 20 ft. span, F.A.P. 19, Hardeman Co., to Eastes-Williams-Ragsdale, Madison Ave. Bldg., Memphis, $64,593; three 24 ft. span concrete bridge over Noahs Creek, S.A.P. 151-C, Coffee Co., to J. L. Rice & Co., Bon Aqua, $6,209; one 40 ft. concrete span bridge over Davis Creek, and four 34 ft. concrete span bridge over Wolfs Creek, S.A.P. 113, Scott and Pulaski Counties, to Alley Constr. Co., Jefferson City, $31,952; seven 40 ft. concrete span bridge over Little River, S.A.P. 141-B, Blount Co., to F. E. Brady & Son, Knoxville, $34,317; 3 bridges over 20 ft. span, F.A.P. 51-A, Carroll Co., also three 30 ft. span bridge on Sta. 142 plus 16, three 10 ft. span bridge on Sta. 282 plus 81, four 32 ft. span bridge on Sta. 553 plus 52, on Columbia-Mt. Pleasant Rd., F.A.P. 34-A, Maury Co., to W. C. Baird & Co., $71,658 and $28,827 respectively. Noted July 31.

O., Marysville—Union Co., Ryan Bridge over Darby Creek, and Farnlands Bridge over Mill Creek, Liberty Twp., to Oregonia Bridge Co., Lebanon, $5,716 and $8,667 respectively; Martin Bridge over Blue's Creek, Taylor Twp., Robinson Bridge over Blue's Creek, Dover Twp., Temple Bridge over Rush Creek, Jackson Twp., to W. C. Moore, Marysville, $2,749, $4,259 and $2,749 respectively.

Michigan — State Hy. Dept., Lansing, Bridge 821104, one 70 ft. arch span, across River Rouge, Wayne Co., to M. E. White Co., 130 Wells St., Chicago, Ill., $34,224.

Ill., Chicago—South Park Comrs., 57th St. and Cottage Grove Ave., 25 span, 1,100 ft. rein.-con. and steel bridge at 23rd St. and South Park Blvd., 2,200 tons steel plate girder, 13,000 cu.yd. concrete slab and columns, 700 tons reinforcing, 70,000 sq.ft. gunite, etc., concrete superstructure and pile foundation, to A. Brundage, 110 South Dearborn St., $566,000; ornamental concrete, to Benedict Stone Corp., Chicago, $134,000 Engrs. total est. $1,300,000. Noted June 26.

Ia., Primghar—See "Streets and Roads."

Kentucky — State Hy. Dept., Frankfort **(S.P. means State Project)**, concrete substructure for 240 ft. bridge over Cumberland River, S.P. 6, Harlan Co., to J. W. Graham, Pineville, $25,198; steel superstructure for 2 span 300 ft. to bridge, also new approaches, five 30 ft. I-beam spans etc., S.P. 5, Bell Co., to Vincennes Bridge Co., Vincennes, Ind., $46,551 and $12,558 respectively, new floor and painting bridge

Bridges (Continued)

on S.P. 47, Jassamine Co., also two 130 ft. and one 150 ft., steel and concrete bridge over Big Sandy River, S.P. 6, Pike Co., to E. R. Mills, Newport, Ky., $12,277 and $38,663 respectively; repairing bridge over Rolling Fork River, S.P.E, Larue Co., to Brooksville Bridge Co., Brooksville, O., $5,895. Noted July 17.

Wash., Aberdeen—City Council, Strauss bascule type, single leaf, heel trunnion bridge, main span 145 ft. long, 27 ft. roadway, with two 5 ft. sidewalks on each side, to Puget Sound Bridge & Dredging Co., Central Bldg., Seattle, $183,635. Engrs. est. $200,000.

Dams

BIDS DESIRED

N. Y., Upper Jay—Sept. 10, by Commissioners Upper Jay Water Dist., concrete dam and pipe line. H. Hull, Saranac Lake; adv. E. N.-R. Aug. 28.

Ind., Oakland City—See "Waterworks."

Calif., Los Angeles—Sept. 29, by Los Angeles Co. Flood Control Dist., Pacoima Dam, 375 ft. high, 40 ft. thick and 102 ft. long at base, 7,000 cu.yd. loose and 5,000 cu.yd. solid rock excav., 143,000 cu. yd. concrete, 5,000 cu.yd. rein.-con., etc. $1,780,000. J. W. Regan, ch. engr. for dist. Noted Mar. 30.

Calif., Vallejo—City Council taking bids rolled-earth fill dam, 92 ft. high, 560 ft. long on top, 45 ft. deep core trench, 275,000 cu.yd. earth fill, etc. A. Kempkey, Hobart Bldg., San Francisco, consult. engr.

Railways

PROPOSED WORK

Michigan—Dept. Pub. Wks., City Hall, Detroit, plans side tracks at new municipal asphalt plant in vicinity of French Rd. and Detroit Terminal Ry. $25,000. G. Jerome, Detroit, city engr.

Wisconsin — Common Council, Madison, instructed Chicago, Milwaukee & St. Paul R.R., c/o J. A. McDonald, div. supt., to elevate tracks on Washington Ave., in Madison. $25,000. Engineer not selected.

California — San Francisco, Napa and Calistoga Railway Co., Crocker Bldg., San Francisco, making plans 8 mi. railroad along Vallejo ater front, Vallejo.

Newfoundland — Provincial Government, St. Johns, soon takes bids relaying tracks of main line railroad. $1,000,000.

BIDS DESIRED

Massachusetts — Aug. 30, by Eastern Massachusetts Ry. Co., 1 Beacon St., Boston, reconstructing about 5,400 ft. railway tracks, Hancock St. between Hayward and Beale Sts., also about 1,500 ft., on Franklin St. between Doodles Corner and Williams Turnout, here. Private plans.

Excavation, Drainage, Irrigation

PROPOSED WORK

La., Thibodaux — Lafourche-Terrebonne D.D., M. J. Polmer, secy., Schriever, making preliminary plans drainage ditches to reclaim 41,000 acres land. $170,000 or more. J. A. Lovell, engr. Noted Aug. 14.

Calif., Alameda—See "Unclassified."

BIDS DESIRED

N. Y., Rye—Sept. 11, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, dredging and filling 800,000 cu. yd. at Manursing Island Park, here. J. Downer, ch. engr.; adv. E. N.-R. Aug. 28. Noted June 26.

Ill., Carlinville—L. Citro, taking bids 14,000 cu.yd. excav., placing, concrete spillway, grubbing, etc., at Ortic Inn. Private plans.

Mo., Kennett—Sept. 18, by Dunklin Co. Court, cleaning old ditches and excavating about 3 mi. new laterals, etc., for D. D. 39. C. E. Smith & Co., Ry. Exch. Bldg., St. Louis, consult. engrs.; adv. E. N.-R. Aug. 28.

BIDS RECEIVED

N. Y., New York—M. Cosgrove, comr. Docks, Pier A, foot Battery Pl., Bronx Boro., dredging 200,000 cu.yd. at Rikers Island, Bronx Boro., Contr. 1834, from Morris & Cummings Dredging Co., 17 State St., $0.24 per cu.yd., total $48,000.

CONTRACTS AWARDED

Miss., Greenville — Mississippi Refuge Levee work, 93,000 cu.yd. excav., to Elkans & Weathers, Greenville, at $0.41 per cu.yd.

Miss., Vicksburg — For 350,000 cu.yd. levee work across Eagle Pass Lake, Brunswick extension, to Rogers, Denison & Brown, Memphis, Tenn., at $0.619 per cu.yd.

Streets and Roads

PROPOSED WORK

Conn., Watertown—Plans concrete highway. $35,000.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., rejected bids Aug. 6, grading Lefferts Ave. and curbing 4th Ave. Noted Aug. 14.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., rejected bids Aug. 4, grading and paving 76th St. Noted Aug. 14.

N. J., Highland Park — Boro Council plans paving Wayne, Adelaide and Summit Sts. $50,000. E. W. Eden, councilman. Engineer not selected.

N. J., Toms River—Ocean Co. plans paving 3 sections of Lakewood-New Egypt Rd. $150,000. J. M. Abbott, Toms River, engr.

Pa., Shamokin—Election in November to vote $100,000 for paving streets.

North Carolina—State Hy. Dept., Raleigh, plans grading and surfacing 21.65 mi. roads in Sampson and Forsyth Counties $145,000; grading 15.4 mi. road in Macon Co., $30,000; grading and waterbound macadam paving 6.8 mi. road in Swain Co., $100,000; grading and top-soiling 78.73 mi. roads in Haywood, Warren, Lee, Harnett, Cumberland, Wake, Stokes and Northampton-Halifax Counties, $561,000; grading and concrete or asphalt paving 38.2 mi. roads in Mecklenburg, New Hanover, Johnston and Wayne Counties, $1,148,000; grading and graveling 12.5 mi. roads in Harnett and Wilkes Counties, $125,000. C. M. Upham, state highway engr.

Miss., Charleston — Election Aug. 30, $36,500 bonds hardsurfacing Tippo Swan Rd. Dist. 4.

Miss., Corinth—Soon takes bids grading, curbing, guttering and surfacing 40,000 sq.yd. various streets, sheet asphalt, willite, brick, bitulithic or Kentucky rock asphalt. $100,000. R. L. Totten, 415 Brown Marx Bldg., Birmingham, Ala., engr.

Miss., Iuka—Tishomingo Co. voted $300,000 bonds road work.

Miss., West Point—Clay Co. voted $100,000 bonds hardsurfacing roads.

La., Amite — Tangipahoa Parish voted $260,000 bonds for road work in Wards 1 and 2.

La., Kentwood — Making preliminary plans grading and hard surfacing 40 mi. roads in 1st and 2nd Wards.

La., Leesville—Making preliminary plans grading, bridging and paving in Rd. Dist. 3. $250,000.

Tennessee—State Hy. Dept., Nashville, making surveys grading, etc., 7 mi. road from Fentress Co. line to Kentucky State line, Pickett Co. J. G. Creveling, highway comr.

O., Canton — Plans improving 11th St. N. W., asphalt, $25,000; also 16th St. N. E., and Belden Ave. S. E., $75,000. W. E. Sarver, City Hall, engr.

O., Millersburg—City clerk takes bids early in 1925 grading, curbing, storm sewers and concrete or brick paving 17,513 sq.yd. Adams St. et. al. $130,000. Barstow & McCurdy, 321 Ohio Bldg., Akron, engrs.

Mich., Ann Arbor—Plans paving Thompson St. from Packard to Liberty Sts. concrete $28,394, or asphalt $31,656. G. H. Sandenburgh, city engr.

Mich., Ferndale — Made plans concrete curbing, guttering and paving 25,973 sq.yd. Rockwell Ave. G. Jerome, 1331 Majestic Bldg., Detroit, engr.

Ia., Davenport—Plans asphalt or bitulithic surfacing 16,564 sq.yd. Fourth St., and 3,182 sq.yd. Dittner St. $60,000. C. J. Stephenson, city engr.

Ia., Marshalltown—Making preliminary plans grading, hard-surfacing, etc., 10 blocks South 6th, Wood, South 7th, Noble, South 1st, Doty, South 6th, East State and South 9th Sts. $40,000. O. G. Herm, City Hall, engr.

Ia., Oskaloosa—T. H. Carlton, city clk., received no bids Aug. 5, paving various streets. Noted July 31.

Kan., La Cygne—Making plans brick and concrete paving 1 mi. various streets Kansas City Eng. Co., 1233 Western St., Topeka, engrs.

Kan., Newton—Making preliminary plans grading, brick on concrete paving and concrete curbing 4 blocks Logan Ave. and East 3rd St., 28 ft. J. G. Hoffman, city engr.

Tex., Anahuac—Chambers Co., making surveys graveling about 11 mi. highway in western part of county, 18 ft., $100,000 bonds voted. W. C. Young, Liberty, engr.

Okla., Chandler — Lincoln Co. defeated $990,000 bonds improving 100 mi. roads. J. M. Page, Capitol Bldg., Oklahoma City, engr. Noted July 17.

Okla., El Reno—Plans grading, curbing and asphalt paving 9,250 sq.yd. East Rogers Ave. $48,000. H. G. Olmsted, 2230 West 18th St., Oklahoma City, engr.

Okla., Enid—Plans grading, curbing and asphalt paving 7,000 sq.yd. North Van Buren and West Pine Sts. $35,000. R. C. McGruder, Enid, engr.

Okla., Lawton — Comanche Co. election Sept. 15, $400,000 bonds, gravel surfacing 100 mi. roads, 18 ft. J. M. Page, Capitol Bldg., Oklahoma City, engr.

Okla., Oklahoma City—Made plans asphalt resurfacing 9 blocks Exchange Ave., and lengthening Canadian Bridge, 150 ft. $62,000. B. M. Hart, City Hall, engr.

Okla., Ponca City—Plans grading, curbing and paving 6 blocks Union Ave., 7,200 sq.yd. vertical fibre brick. $37,000. G. Smee, Ponca City, engr.

Okla., Ponca City—Plans 5,600 sq.yd. North 8th St. from Grand to Maple Sts. grading, curbing and vertical fibre brick paving. $35,000. G. Smee, Ponca City, engr.

Calif., Los Angeles—Made plans improving Figueroa St. between 101st and 103rd Sts., 28,915 sq.ft. 6 in. concrete paving, 3,296 sq.ft. sidewalks, etc., also alley west of Menlo Ave. between 43rd St. and Vernon Ave., 10,991 sq.ft. 5 in. concrete paving, 341 sq.ft. remodel and oiled surface, etc.

Calif., Los Angeles — Los Angeles Co. plans improving streets in Tract 7661, $48,000, Tract 7861, incl. 14,001 cu.yd. excav., 11,763 lin.ft. concrete curbing, 54,337 sq.ft. sidewalks, 30,293 sq.yd. disintegrated granite paving, etc., to exceed $45,000, Atlantic Ave. and Center St. in Impvt. Dist. 106, $38,000; Pasadena Ave. and other streets in Impvt. Dist. 145, $127,000; concrete paving and guttering Hickory St. from Manchester St. to California Ave., in Impvt. Dist. 95, $26,763.

Calif. Los Angeles — Made plans improving Westmoreland Ave. between 7th and 9th Sts., 1,280 cu.yd. cut, 1,379 sq.ft. asphalt paving, 10,816 sq.ft. 6 in. concrete paving 33,083 sq.ft. 1½ in. Warrenite on 3½ in. bituminous base, 1,520 sq.ft. asphalt remodeling, etc.; Plummer St. between Saugas and Haskell Aves., 3,625 cu.yd. cut, 64,700 sq.ft. asphaltic concrete paving; Glen Airy St. near Gowers St., 7,022 sq.ft. 6 in. concrete paving, 785 lin.ft. curb, 800 sq.ft. remodeling, etc.; Raphael St. between Aves. 53 and 54, 29,667 sq.ft. 5 in. paving, 3,255 sq.ft. oil and roll, 3,121 ft. curbs, 14,099 sq.ft. walks, etc.; Lagoon Ave. between M and J Sts., 67,628 sq.ft. concrete paving, etc.; Broad St. Ave. between Anaheim and B Sts., 385 ft. curb, 232 cu.yd. cut, 38,535 sq.ft. sidewalks, etc.

Calif., Pasadena—Making plans grading and 6 in. oil macadam paving, sidewalks, ornamental street lighting system, etc., in Municipal Impvt. Dist. 1. $290,000 bonds to be voted. W. C. Earle, city engr.

Calif., San Francisco—Making plans constructing road connecting Municipal Golf Links and Skyline Blvd. $25,000. M. M. O'Shaughnessy, city engr.

Calif., Santa Ana—Made plans improving 4.7 mi. Huntington Beach Blvd., 4,000 cu.yd. excav., 24,190 lin.ft. shaping, 4,350 cu.yd. gravel unload and haul from cars, 4,350 cu.yd. gravel haul from pit at Olive. J. L. McBride, co. road comr.

Calif., Santa Ana—Orange Co. plans improving 1 mi. portion of Ball Rd., Impvt. Dist. 25, 6 in. asphaltic concrete pavement, etc. $25,000. J. L. McBride, co. road. comr.

Calif., Stockton—San Joaquin Co. plans improving 4 mi. roads in Castoria Dist. south of Yosemite Ave. F. E. Quail, Stockton, co. surv.

Newfoundland — Provincial Government, St. Johns, soon takes bids reconstructing main highways. $2,000,000.

BIDS DESIRED

Massachusetts—Sept. 2, by Dept. Pub. Wks., State House, Boston, bituminous concrete paving 4,650 ft. highway in Barnstable, also bituminous macadam paving 4,890 ft. highway in Foxboro, both 18 ft., W. F. Williams, comr.

Massachusetts—Sept. 10, by Dept. Pub. Wks., State House, Boston, rein.-con. pav-

Streets and Roads (Continued)

ing and bridging 1,500 ft. highway in Lee; bituminous macadam paving and bridging 2,943 ft. in Russell; steel bridge and approaches, about 900 ft. long in Sheffield, all 20 ft., W. F. Williams, comr.

Conn., New Haven—Taking bids sheet asphalt, paving White, Day, Acadamy, Sperry and Gilbert Sts. To exceed $25,000. E. S. Nettleton, City Hall, engr.

New York—Sept. 5, by A. W. Brandt, comr. State Hy. Dept., 55 Lancaster St., Albany, constructing and reconstructing roads in Albany, Cattaraugus, Cayuga, Chenango, Herkimer, Jefferson, Livingston, Oneida, Onondaga, Ontario, Putnam and Steuben Counties; adv. E. N.-R., Aug. 28.

N. Y., New York—Sept. 3, by J. Miller, pres. Manhattan Boro., Municipal Bldg., widening and repaving the widened portion with wood block pavement on concrete, 6th Ave., from 53rd to 59th Sts.; with sheet asphalt on concrete north side of 59th St. from 5th Ave. to Columbus Circle.

N. J., Crosswicks—Sept. 16, by Hamilton Twp. Com., W. R. Hart, clk., reconstructing 2½ mi. Old York Rd. from here to Mercer Co. line, 20 ft., gravel. C. S. Sincerbeaux, Mechanic Bldg., Trenton, engr.

N. J., Toms River—Sept. 2, by Freeholders Ocean Co., bituminous concrete paving 10,212 sq.yd. Washington St., here. $30,000. J. M. Abbott, Toms River, engr.

Pa., Clintonville—Sept. 4, at office F. K. Porter, boro. clk., grading, curbing and paving Franklin and Butler Sts.; adv. E. N.-R. Aug. 28.

Pa., Gallitzin—Sept. 5, by Boro Council, P. C. Conrad, secy., 706 Hemlock St., grading, cement curbing and paving, 7,000 sq.yd. Main, Church, Hemlock, Convent, Walnut and Short Sts., warrenite bitulithic and vitr. brick on one course rein.-con. $30,000. D. W. Dillman, 85 Altoona Trust Bldg., Altoona, engr.

Pa., Punxsutawney—Aug. 29, by Boro. Council, 11,000 sq.yd. street paving.

Delaware—Sept. 10, by State Highway Dept., Dover, grading and paving 4.578 mi. Clarks X Rds.-Maryland Line, Contr. CS-35, and 3.5 mi. Omar-Clarkville Rd., Contr. CS-36; adv. E. N.-R. Aug. 28.

La., New Orleans—Sept. 16, by A. Murphy, comr. Dept. Pub. Finance, City Hall, paving 57 streets. A. Klorer, city engr.

Ky., Sturgis—Sept. 2, at office C. Prichet, city clk., City Hall, paving, curbing and guttering various streets. J. J. Martin, mayor; adv. E. N.-R. Aug. 28.

O., Cleveland—Sept. 3, by Cuyahoga Co., paving Silsby Rd. $126,400. F. Lander, Court House, engr.

O., Columbus—Sept. 2, by W. H. Duffy, dir. Pub. Serv., grading and paving and laying necessary water services and sewer connections in 1,289 ft. Scioto Dr. 54 ft., asphalt $36,765, 550 ft. Longview Ave., brick $11,963, asphalt $9,811, 425 ft. Vida Pl., brick $9,540, asphalt $7,545; 372 ft. Ellis Pl., brick $4,982, asphalt $4,024, 1,823 ft. Brinker Ave., brick $48,455, asphalt $41,010, 1,900 ft. Westgate Ave., brick $42,024, asphalt $35,026, all above 24 ft. wide; 928 ft. Ogden Ave., brick $22,865, asphalt $18,302, 777 ft. Warren Ave., brick $18,348, asphalt $14,528, both 26 ft.; 398 ft. alley west Ohio Ave. (Granger Alley), brick $3,329, concrete $2,962, and 710 ft. alley north of 14th Ave., brick $6,766, concrete $6,054, both 20 ft.

O., Columbus—Sept. 6, by Comrs. Franklin Co., grading and paving 11,000 sq.yd. Harding Rd., and 30,000 sq.yd. Eastmore Blvd., Truro Twp., sheet asphalt, $66,271 and $137,845 respectively, ¾ mi. Miller Rd., Truro Twp. and 3.96 mi. Waggoner Rd., Truro and Jefferson Twps., both 16 ft., Truro Twp., water bound macadam, $17,-145 and $87,224 respectively.

O., Idlewood (Cleveland Heights P. O.)—Sept. 2, paving Friedel and Barrington Rds. to exceed $25,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Ind., Madison—Sept. 15 by C. Forkner, aud. Jefferson Co., concrete paving 2 mi. Van Dyke and Free Rds., 28 ft., in Anderson Twp. $35,000. M. H. Donney, City Hall, engr.

Ind., Noblesville—Aug. 30, by Commissioners Hamilton Co., grading and gravel-ing 4.5 mi. Shugart Rd., 24 ft. $26,120. J. S. Shannon, Noblesville, engr.

Ia., Adel—Sept. 1, by Dallas Co., grading, etc., 11.95 mi. road Private Road Project 250, 107,262 cu.yd. earth excav., 120,600 sta.yd. overhaul, 87,301 ft. tile drain, etc. $47,000. State Hy. Comn., Ames, engrs.

Minn., LeSueur—Sept. 4, by S. McMillen, aud. Le Sueur Co., improving Job 2402, State Rd. 17, 55,817 cu.yd. excav., 138,450 cu.yd. overhaul, etc.; Job 2307-B, State Rd. 35, 33,422 cu.yd. excav., 39,395 cu.yd. overhaul, etc.; Job 3401, State Rd. 33, 15,-885 cu.yd. excav., 39,395 cu.yd. overhaul, etc. $25,000. R. F. Nichols, LeSueur Center, engr.

Kan., Columbus—Sept. 3, by Clerk Cherokee Co., grading and feather edge gravel surfacing 2.768 mi. Chetopa Rd., 6,180 cu. yd. gravel, 5,320 lin.ft. guard fence, 23,535 cu.yd. excav., 200 lin.ft. 15- to 24-in. corrugated metal pipe, etc. H. W. Terrill, co. engr.

Neb., Holdrege—Sept. 3, by Clerk Phelps Co., grading, graveling, etc., 21.813 mi. Federal Aid Project 145-A. $80,000. R. Cochran, Lincoln, state engr.

Neb., Blair—Sept. 8, by Clerk Washington Co., 58,000 sq.yd. 3 in. gravel surfacing Federal Aid Project 91-A. $27,500; also 26,600 yd. grading, etc., Federal Aid Project 91-C, $26,000. R. Cochran, Lincoln, state engr.

N. D., La Moure—Sept. 4, by La Moure Co., graveling 15 mi. Federal Aid Project 94, 119,990 cu.yd. load, unload, spread, screen, 85,500 cu.yd. mi. haul, 5,550 stripping pits, etc. $25,000. W. I. Struble, co. aud.

Missouri—Aug. 29, by State Hy. Dept., Jefferson City, improving 135.595 mi. roads in St. Charles, Washington, Worth, Johnson, Ray, Pike, Saline, Vernon, Marion, Callaway, Holt, Stoddard, Randolph, Nodaway, Grundy, Ripley, Texas, Webster, Bates, Audrain, Boone and Cass Counties. B. H. Piepmeier, state highway engr.

Tex., Dallas—Koch and Fowler, Central Bank Bldg., taking bids last of August, grading, curbing, guttering and paving 5,000 sq.yd. Turtle Creek Blvd. $25,000.

Tex., Sweetwater—Sept. 5, by City Council, J. H. Boothe, Mayor, improving various streets, 8,766 sq.yd. resurfacing, 7,721 sq.yd. pavement, 2,673 lin.ft. curbing and guttering, 4,073 roadway excav., $40,000. Elrod Eng. Co., 3124 Elm St., Dallas, engrs.

Okla., Oklahoma City — Sept. 2, by M. Peshek, Jr., city clk., paving and repaving 1 mi. Robinson Ave., 1,500 sq.yd. asphalt, 4,000 cu.yd. excav., 200 ft. pile trestle, 30,000 cu.yd. earth embankment, also new channel for the river, $50,000; repairing 1 mi. Exchange Ave., 5,000 sq.yd. asphalt, 3,000 cu.yd. excav., 150 ft. pile trestle, 30 ft. wide, 45,000 cu.yd. embankment, change in river course, levee protection, etc., $70,-000. B. M. Hart, City Hall, engr.

California—Sept. 8, by State Hy. Comn., Sacramente, asphaltic concrete paving 1.7 mi. Chico Rd. and Sacramento Ave., Butte Co. R. M. Morton, state highway engr.

Calif., Marysville—Sept. 3, by Supervisors Yuba Co., concrete or asphaltic concrete paving 7.25 mi. Arboga and Plumas Rds., J. R. Meek, co. surv. Noted Aug. 21.

Calif., Los Angeles—Sept. 2, by Bd. Pub. Wks. improving 78th St. between San Pedro and Main Sts., 34,921 sq.ft. concrete paving, 34, 921 sq.ft. Warrenite bitulithic paving, 224 ft. curbing, also 63rd St. between Normandie and Western Aves., 4,242 sq.ft. 5 in. concrete paving, 131,956 sq.ft. oil and roll, 10,159 ft. curbing, 49,-430 sq.ft. sidewalks, 21,921 sq.ft. guttering. J. L. Griffin, city engr.

Calif., Los Angeles—Sept. 8, by Supervs. Los Angeles Co., improving Otis Ave. between Baker and Florence Aves., 950 cu. yd. remove disintegrated granite base, 11,-372 cu.yd. replace disintegrated granite base, 4,027 cu.yd. excav., 2,575 lin.ft. curbing, 11,227 sq.ft. guttering, 10,125 sq.yd. concrete paving.

Calif., Oakland — Sept. 8, by Supervs. Alameda Co., improving 1.8 mi. highway between Hayward and San Leandro, 8,300 cu.yd. grading, 3,800 lin.ft. concrete curb and gutter, 257,000 sq.ft. 1½ in. Warrenite bituminous on 5 in. concrete, or 2 in. Warrenite bitulithic on 5 in. concrete, etc. G. A. Posey, Oakland, co. surv. Noted June 19.

Calif., Stockton — City Council taking bids improving streets in Pacific Manor (Bonnie Brae, Pacific Ry., etc.), 15,501 cu.yd. cut, 1,275 cu.yd. fill, 13,391 lin.ft. concrete curb and gutter, 66,037 sq.ft. concrete sidewalks, 152,274 sq.ft. 2 in. asphaltic macadam on 4 in. cementing gravel, 17,080 sq.ft. 2½ in. asphaltic concrete on cement gravel. W. B. Hogan, city engr. Noted Aug. 14.

BIDS RECEIVED

Connecticut—State Hy. Dept., Hartford, concrete paving 8,054 ft. in North Canaan and Norfolk, and 8,220 ft. in North Canaan, from Osborne & Barnes, Odd Fellows Bldg., Danbury, $60,385 and $64,-965 respectively, 3,982 ft. in. Ansonia, from Leverty & Hurley, 1014 Wood Ave., Bridgeport $23,591, 17,295 ft. in Watertown, and 19,210 ft. in Plainfield, from Natl. Paving Co., Inc., New Haven, $159,-476 and $127,362 respectively, 7,582 ft. in New London, from Waterbury Constr. Co., 110 Grand St., Waterbury, $37,223; asphalt macadam paving 5,350 ft. in Colbrook, from J. Mascetti, 223 Oak Ave., Torrington, $33,418, 22,000 ft. in Union, from M. A. Gammino Constr. Co., 728 Valy St., Providence, R. I., $129,633; waterbound macadam paving 10,900 ft. in Roxbury, Woodbury and Southbury and native stone macadam paving 5,000 ft. in Roxbury, from L. Langhi Bros., Inc., 43 Centre St., Torrington, $56,506 and $26,908 respectively; 1 span 52 ft. rein.-con. girder bridge, in Sterling, Windham Co., from L. E. McLoughlin, New London, $26,119. Noted Aug. 21.

N. Y., Albany — Improving Hollywood Ave,. from R. C. Sheehan, Albany, $31,49- engrs. est. $40,000; extending Manning Blvd., asphalt, from M. F. Dollard, 36 State St., $153,145, engrs. est. $165,000.

N. Y., Schenectady—Bd. Contr. & Supply, improving 0.82 mi. Washington Ave., 38 ft., from W. P. McDonald Constr. Co., 817 Peek St., sidewalks, curb, etc. $106,633, top dressing $33,646. Engrs. est. $150,000.

New Jersey—State Hy. Comn., Trenton, concrete paving 37,706 sq.yd. Route 14, Sect. 10, and 37,922 sq.yd. Route 14, Sect. 11, Cape May Co., from Michael Staub, 47 South Bway., Pitman, $130,952 and $183,-915 respectively; 43,494 sq.yd. Route 3, Sect. 13, Atlantic Co., from C. T. Kavanaugh, 32nd and Prospect Sts., Bayonne, $40,172. Noted Aug. 7.

Maryland—State Rd. Comn., Baltimore, concrete paving 3.7 mi., road from Slacks Corner to Henryton, Howard Co., Contr. HO-47, from Sutton Constr. Co., 1125 Jefferson Bldg., Phila., Pa., $143,832; 1 mi. road through Oxford, Talbot Co., Contr. T-20, from P. D. Phillips & Bro., Salisbury, $29,825; 1.47 mi. road along Broad and Bay Sts. Berlin, Worcester Co., Contr. WO-40, from J. R. Phillips, Jr., Bay St. Berlin, $34,823; 1 mi. road from Denfense Highway to Landover, Prince George's Co., Contr. P-54, from Christhilf & Ensey, 1625 Ridgely St., Baltimore, $29,657. Noted Aug. 7.

Alabama—State Hy. Comn., Montgomery, Aug. 6, asphalt surfacing 17 mi. Montgomery-Birmingham Rd., 20 ft., Chilton Co., from J. R. and J. B. Miller, Baconton, Ga., $271,244. Engrs. est. $272,000.

Louisiana—State Hy. Dept., Reymond Bldg., Baton Rouge, constructing State Project 408, Sects. A and B, Richmond Parish, from R. Perry, Mobile, Ala., $31,-844.

South Dakota—State Hy. Comn. Pierre, **(F.A.P. means Federal Aid Project)**, grading 10.94 mi. F.A.P. 166, McCook Co., and 11.11 mi. F.A.P. 161, Hanson Co., from W. R. Larson, 519 Secy. Natl. Bldg., Sioux Falls, $30,574 and $27,030 respectively; 10.95 mi. F.A.P. 180C, Corson Co., from England & England, Murdo, $43,481; 14.01 mi. F. A. P. 184A, Spink Co., from Dowd Bros. & Schreiber, Watertown, $38,345. Noted Aug. 7.

CONTRACTS AWARDED

Massachusetts—Dept. Pub. Wks., Div. Highways, State House, Boston, bituminous macadam paving, 4,800 ft. highway in Boylston, to C. E. Horne, Milbury, $31,-994, 1,900 ft. in Sharon, to Morelle & Tiorle, North Attleboro, $12,219; bituminous concrete paving 6,000 ft. in Harwich, to W. A. Jones, Main St., Barnstable, $15,-192. Noted Aug. 7.

Mass., Boston—Recut granite block paving High, Kingston and South Sts., to M. F. Gaddis, 2 Victoria St., Dorchester, $25,906.

Conn., New Haven — Sheet asphalt resurfacing Green St., to C. W. Blakeslee & Sons, 58 Waverly St. Engrs. est. $25,000.

N. Y., Brooklyn—Dept. Parks, Municipal Bldg., New York, cement walks around McCarren Park plots, here, to Galco Contr. Co., 745 Dean St., $5,115, also grading and sheet asphalt paving Ft. Hamilton Parkway, to M. J. O'Hara, 717 65th St., $151,730.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, to Cranford Co., 52 9th St., asphalt paving and repaving Buffalo Ave., $39,063, to Uvalde Asphalt Paving Co., 1 Bway., New York, Hinsdale Ave. $12,690, Lawrence St., $24,434, Saratoga Ave., $21,104; to Carberry & Block, granite block paving Knickerbocker Ave., $24,191; to Harris & Bernhardt, Central Ave., asphalt block paving 21st St. $30,741. Noted Aug. 21.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Sub-

Streets and Roads (Continued)

way Bldg., to W. P. MacDonald Constr. Co., 17 West 42nd St., New York, grading, curbing and sidewalks on Brady St., $10,676, recurbing reflagging and asphalt paving Singer St. $11,060; to Welsh Bros. Contg. Co., 32 Queens St., Astoria, grading Caspian Ave. $5,996; to A. Pegno, 380 Freeman Ave., Astoria, grading, curbing and sidewalks Grout Ave. $16,451, Ditmars Ave. $15,184, Van Pelt Ave. $10,985; to Interstate Contg. Co., Havemeyer St. $7,510, and Lefferts Blvd. $34,293, to O. Kurth, 9519 126th St., Richmond Hill, 104th St. $27,400, 113th St. $13,802, to R. A. Hess, Inc., 14 Queens St., Astoria, Vandeventer Ave. $2,193, Tory St. $6,415, to J. Condon, 341 Cornelia St., Brooklyn, Strong St. $19,975, to Highway Impvt. & Repair Co., 501 Bloomfield Ave., Montclair, N. J., Palmetto St. $9,134, to Peace Bros., Inc., 57 North Laurence St., Flushing, Waldron St. $17,825, to Kennedy & Smith, Inc., 93 Amity St., Flushing, 122nd St. $4,810. Noted Aug. 14.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., to Welsh Bros. Contg. Co., 32 Queens St., Astoria, grading, curbing and sidewalks on Armand Pl. $3,979, Skillman Ave. $15,993, 126th St. $3,255, to J. L. O'Brien Jr., William St., Jamaica, New York Blvd. $2,998, to Interstate Contg. Co., 154 Nassau St., New York, Nicholls St. $6,300, Tiemann Ave. $21,631, Nicholls St. $12,246, to H. J. Mullin Contg. Co., Jamaica Ave. and 144th St., Jamaica, 86th Ave. $4,102, 94th St. $13,619, to Highway Impvt. & Repair Co., Bloomfield Ave., Montclair, N. J., 96th St. $24,453, to W. P. McDonald Constr. Co., 17 West 42nd St., New York, grading, curbing, sidewalks and paving Norman St. $7,010, sheet asphalt paving 94th St. $14,600, 109th St. $17,970. Noted Aug. 14.

N. Y., New York — J. Miller, pres. Manhattan Boro., Municipal Bldg., to Asphalt Constr. Co., 208 Bway., granite block repaving Telegram Sq. $26,158, Hudson St. $55,266, Duane St. $23,163, 45th St. $19,060; to Uvalde Asphalt Paving Co., 1 Bway., stone filled sheet asphalt repaving 69th St. $11,730; to Cleveland Trinidad Paving Co., Flushing, repairing asphalt pavement in railroad area $67,800. Noted Aug. 7.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro., Boro Hall, bituminous concrete repaving Richmond Rd. and North Burgher Ave., to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $23,169 and $25,056 respectively, granite block repaving Richmond Terrace, to J. Johnson Sons, 455 Bway., West New Brighton, $84,572. Noted Aug. 21.

N. J., Belvidere—Warren Co., concrete paving 3½ mi. Columbia-Hainesburg Rd., Knowlton Twp., to Salmon Bros., Netcong, $137,823. Noted July 31.

N. J., Freehold—Monmouth Co., Court House, paving ½ mi. Old Bridge-Matawan Rd., to Gallena & Poole, 146 East Front St., Trenton, $31,305. Noted Aug. 7.

N. J., West Orange—Purchasing Agent Essex Co., Newark, grading and paving Mt. Pleasant Ave., 9,300 sq.yd. granite block, 3,070 sq.yd. concrete, to A. Milmes, 83 Littleton Ave., Newark, $148,999. Engrs. est. $180,000.

Md., Baltimore—Bd. Awards asphalt paving 21,650 sq.yd. North Point Rd., Lakewood Ave., Chester, Duncan, McElderry, Brighton, and Jefferson Sts., to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $78,746.

Virginia—State Hy. Dept., Richmond, surfacing 3.78 mi. Gordonsville-Richmond-Charlottsville Rd., Louisa Co., incl. bridge over South Anna River, to J. M. Cowherd, Columbia, $32,090; bituminous macadam surfacing 3.55 mi. and 2.9 mi. roads, both near Bedford, to Vaughan & Draper, Roanoke, $176,655; grading 2.77 mi. Big Stone Gap Rd., Wise and Lee Counties, to R. H. Bolling, Norton, $29,349; concrete surfacing 4.533 mi. Thompson Store Rd. south, on Richmond-Washington Hy., Spotsylvania Co., incl. bridge over Massaponax Creek, to Spotsylvania Constr. Co., Highland Springs, $187,022.

W. Va., Milton—Concrete and brick paving Washington Ave. and others, to Harrison & Dean, Old Walton Bldg., Huntington. $48,000. Noted July 10.

Alabama—State Hy. Comn., Montgomery, grading 22 mi. Mobile—Selma Rd., 20 ft., Washington Co., to Fountain Constr. Co., Hattiesburg, Miss., $129,947, engrs. est. $130,000, several concrete bridges on above road, to E. Pettus & Co., Montgomery, $31,824, surfacing above road and grading and surfacing 7.7 mi. Selma-Centerville Rd., 20 ft., Dallas Co., to E. P. Toulmin, Toulminville, Mobile, $159,247 and $64,822 respectively, engrs. ests., $160,000 and $65,000 respectively; several concrete bridges on Selma-Centerville Rd., to B. Smith, Montgomery, $32,129. Noted Aug. 7.

Ala., Huntsville — Asphalt paving 10 blocks Locust and East Clinton Sts., 30 ft., to Lasley Bros., Chattanooga, Tenn., $56,000.

Minn., St. Paul — H. W. Austin, city purch. agt., removing 12,750 sq.yd. present paving, and repaving 13,865 sq.yd. 8th St., brick, to Hanlon & Okes, 1501 Merchants Natl. Bank Bldg., $51,395. Noted Aug. 7.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville **(F. A. P. means Federal Aid Project, S. A. P. means State Aid Project)**, grading etc. 9.29 mi. Cleveland-Hamilton Co. line Rd., F. A. P. 78-A, Bradley Co., to J. W. Gunn & Co., Birmingham, Ala., $144,651, 6.82 mi. Trenton-Dyer Rd., S. A. P. 175-A, Gibson Co., to Cresap Bros., Humbolt, $49,321, 7.02 mi. Athens-Monroe Co. line Rd., F. A. P. 60, McMinn Co., incl. 1 bridge over 20 ft. span, to R. S. Freeman & Co., Knoxville, $38,842; grading and concrete surfacing 10.16 mi. Columbia-Mt. Pleasant Rd., F. A. P. 34, Maury Co., to Foster Creighton, 4th and 1st Natl. Bank Bldg., Nashville, $324,142; slag or crushed stone surfacing 7 mi. Crossville Rd. W., S. A. P. 130-B, Cumberland Co., also grading and surfacing with bituminous macadam on giant macadam incl. 1 concrete bridge over 20 ft. span 1.23 mi. Hartville-Sumner Co. line Rd., S. A. P. 166-B, span, to J. Oman & Co., Nashville, $65,706 each. Noted July 31.

Ohio — Dept. Highways & Pub. Wks., Columbus, grading, bridging and paving 3.812 mi. Sect. F, Zanesville-McConnellsville Rd., Muskingum Co., bituminous macadam, asphalt, to Adams Bros. Contg. Co., Muskingum Ave., Zanesville, $121,862.

Ohio — Dept. of Hys. and Pub. Wks., Columbus, grading, bridging and paving 0.994 mi. Sect. "Brilliant North," and 0.808 mi. Sect. "M-2" Ohio River Rd., Jefferson Co., concrete, to Mariner & Co., Steubenville, $83,518 and $41,803 respectively; 6 mi. Sects. D and E Upper Sandusky-Tiffin Rd., Wyandot Co., water bound macadam, to U. J. Sraib, Sycamore, $24,852.

O., Akron — Summit Co., grading and paving 4.12 mi. Cleveland-East Liverpool Rd., I.C.H. 12, to P. T. McCourt Constr. Co., 365 South Main St., $138,187, engrs. est. $150,269; 1.502 mi. Barberton-Springfield Rd. 14, Sect. C, to A. E. Guilford Constr. Co., 320 Metropolitan Bldg., $58,167, engrs. est. $66,651. Noted Aug. 7.

O., Cleveland—Cuyahoga Co., improving Superior Rd., 3,890 sq.yd. 4 in. vitr. brick paving, 21,000 lin.ft. stone curbing, 18,300 lin.ft. 4 in. gutter, 36,600 cu.yd. earth excav., and 32,610 sq.yd. concrete base, to Fisher & Williams, Lorain Rd., $289,141. Noted July 10.

O., Cleveland—Grading, curbing, guttering and asphalt paving 62,316 sq.yd. West 131st St., to Highway Constr. Co., The Arcade, $62,316.

O., Cleveland—Cuyahago Co., bituminous macadam paving 15,380 sq.yd. Taylor Rd., to A. M. Pejsa Paving Co., 3161 Derbyshire Rd., $78,691. Engrs. est. $99,600. Noted Aug. 7.

O., Dayton—Sheet asphalt paving 5,700 sq.yd. Superior Ave., to Republic Asphalt Paving Co., 801 Schwind Bldg., $27,191.

O., East Cleveland (Cleveland P. O.)—City, stone curbing, guttering and brick paving Hayden Ave., to Reiley Bros., The Arcade, Cleveland, about $25,000.

O., Euclid — Curbing, guttering and asphalt paving 16,400 sq.yd. Edgecliff Blvd., East 197th, 196th, 199th and 200th Sts., to F. B. Stein, Euclid, $59,959.

O., Garfield Heights (Cleveland P. O.)—Curbing and vitr. brick paving Sladden Rd., to Enterprise Paving & Constr. Co., 8444 Bway., Cleveland, $30,500.

O., Lisbon—Bd. of Control, resurfacing 1¼ mi. Canton Hill, 20 ft. to H. C. Armstrong, Canton, $25,080. Engrs. est. $25,000.

O., Youngstown—Mahoning Co., widening 2½ mi. Boardman Rd. from 16 to 30 ft., brick, to Olson Constr. Co., Mahoning Bank Bldg. $161,000. Engrs. est. $160,000.

O., Zanesville—Muskingum Co., improving Maysville Pike, surface treated macadam, to J. W. Carey, Ada, $70,866. Engrs. est. $75,000. Noted June 26.

Ia., Davenport—Improving 5 streets and avenues, 8,379 sq.yd. bitulithic paving, 6,935 lin.ft. curb and gutter, to Central Eng. Co., 809 Putnam Bldg., $31,032; 6 alleys, 7,130 sq.yd. 6 in. concrete, to Iowa Constr. & Eng. Co., 419 Harrison St., $13,190.

Ia., Primghar—O'Brien Co., improving 13 mi. road, Project 335, to O. W. McNamara, Sioux Falls, S. D., $0.223; Proposal 384, Sect. A, to A. Vander, Schaap & Vander, Hull, Ia., at $0.319, Sect. B, to J. L. Mauly, at $0.33, 2½ mi. gravel surfacing township road, to H. L. Bone & Son, Royal, at $1,183; 1 I-beam span bridge and 12 culverts, to H. C. Jenson Co., Thompson, $9,810.

Michigan — State Hy. Dept., Lansing, grading and surfacing 1.83 mi. State Trunk Line Rd. 54-3-A, 17.395 sq.yd. gravel, to Pickett, Armantroul & Goodwin Bros., Pullman, $21,077.

Michigan — State Hy. Dept., Lansing, grading and surfacing 0.52 mi. State Trunk Line Rd. 92-2, Washtenaw Co., to J. H. Lowe, Kalamazoo, $23,221.

Michigan — State Hy. Dept., Lansing, grading and surfacing 2.122 mi. State Trunk Line Rd. 11-58, Oceana Co., 22,640 sq.yd. concrete, to Hersey Gravel Co., Hersey, $62,873.

Michigan — State Hy. Dept., Lansing, will surface 5.13 mi. Federal Aid Project 67 E1, 54,176 sq.yd. concrete, and 5.493 mi. Federal Aid Project 67 E2, 58,001 sq.yd. concrete, both Washtenaw Co., by day labor. G. C. Dillman, ch. engr.

Mich., Detroit—To Otis Cement Constr. Co., 806 Hammond Bldg., paving with one course concrete, 2,400 sq.yd. Alley 2000 $5,995, 1,350 sq.yd. Alley 2002 $3,455, 1,350 sq.yd. Alley 2005 $3,378, 1,300 sq.yd. Alley 2006 $3,297, 1,200 sq.yd. Alley 2007 $3,044, 1,220 sq.yd. Alley 2008 $3,070, 1,080 sq.yd. Alley 2009 $2,787, 910 sq.yd. Alley 2010 $2,274, 910 sq.yd. Alley 2011 $2,290; to McKenna Trucking Co., 3559 Holcomb Ave., 2,300 sq.yd. Alley 2001 $3,259, 420 sq.yd. Alley 2004 $1,306; to C. L. Lincoln, 8074 East Canfield Ave., 1,000 sq.yd. Alley 2003 $2,585.

Mich., Detroit—Paving with 3½ in. sheet asphalt on 8 in. concrete, 11,210 sq.yd. Tireman Ave., to Detroit Asphalt Paving Co., 409 Free Press Bldg., $48,165. Noted Aug. 21.

Mich., Detroit — To Cleveland Trinidad Paving Co., 402 Hammond Bldg., paving with 3½ in. sheet asphalt on 8 in. concrete 6,200 sq.yd. Florence Ave., Sect. 1, $30,753; to C. L. Lincoln, 8074 East Canfield Ave., 6,890 sq.yd. Maine Ave., Sect. 1, $22,340; to Detroit Asphalt Paving Co., 409 Free Press Bldg., 3,010 sq.yd. Kirkwood Ave. $15,075, 22,100 sq.yd. Mack Ave., Sect. 3, $109,856, 3,070 sq.yd. Livernois Ave., Sect. 3, $15,338, 7,900 sq.yd. Livernois Ave., Sect. 4, $39,481, 14,700 sq.yd. Livernois Ave., Sect. 5, $89,611, 33,500 sq.yd. Van Dyke Ave., Sect. 2, $144,167, 32,810 sq.yd. Van Dyke Ave., Sect. 3, $137,802, 34,300 sq.yd. Van Dyke Ave., Sect. 4, $144,204.

Wisconsin—State Hy. Comn., Madison, to La Grosse Dredging Co., 405 Plymouth Bldg., Minneapolis, Minn., improving Winona Dump Rd., Projects 340A and 87, Buffalo Co., 5,439 cu.yd. earth excav., at $0.31 per cu.yd., 10,689 cu.yd., loose rock excav. $0.615, 2,000 cu.yd. solid rock excav. $1.50, 157,048 cu.yd. embankment borrow, $0.295, etc., total $67,062.

Wisconsin—State Hy. Comn., Division 3, Nicolet Bldg., Green Bay, improving 9.57 mi. Mountain-Lakewood Rd., Federal Aid Project 338, Oconto Co., to Muth & Knetchel, Manitowoc, 100,803 cu.yd. earth excav. at $0.34 per cu.yd., 1,815 cu.yd. loose rock excav, $2,595 cu.yd. solid rock excav. $3.90, etc., total $70,096. Noted July 31.

Wis., Kenosha — Paving Fairfield Ave. and Pearl St., asphaltic concrete, to H. J. Glover & Son, Schwartz Bldg., $26,545; Orchard and Edward Sts., rein.-con., to Brennan & Bounsell, 305 Main St., $18,275.

Wis., Milwaukee — Vibrolithic concrete paving Fond du Lac Ave., 49th, Lake and 36th Sts., concrete paving 2 alleys, and concrete sidewalks on 32nd Ave. and Orchard Pl., to Kroening Constr. Co., 39th Ave. and Mitchell St., $82,239; concrete paving 1 alley, to Parkinson Constr. Co., 322-27th St., $2,302, alley, to J. Bluhm & Son, 1298 Achilles Pl. $10,063, alley, to A. Retzlaff, 868 Island Ave., $3,852; asphaltic concrete paving Murray Ave., to Badger Constr. Co., 97 Wisconsin St., $44,446; granite block paving east approach to North Ave. Bridge, to R. H. Gumz, 831-13th Ave., $5,730. Noted July 21.

Wis., Milwaukee—Dept. Pub. Wks., concrete curbing and guttering Orchard Pl., to Milwaukee Genl. Constr. Co., 427 Mitchell St., $1,250, Pratt St., to W. Vanderboom, 97 32nd St., $1,647; vibrolithic concrete paving 37th and 39th Sts., to R. H. Gumz, 831 13th Ave., $9,701; concrete

Streets and Roads (Continued)

ing and bridging 1,500 ft. highway in Lee; bituminous macadam paving and bridging 2,943 ft. in Russell; steel bridge and approaches, about 900 ft. long in Sheffield, all 20 ft., W. F. Williams, comr.

Conn., New Haven—Taking bids sheet asphalt, paving White, Day, Acadamy, Sperry and Gilbert Sts. To exceed $25,000. E. S. Nettleton, City Hall, engr.

New York—Sept. 5, by A. W. Brandt, comr. State Hy. Dept., 55 Lancaster St., Albany, constructing and reconstructing roads in Albany, Cattaraugus, Cayuga, Chenango, Herkimer, Jefferson, Livingston, Oneida, Onondaga, Ontario, Putnam and Steuben Counties; adv. E. N.-R., Aug. 28.

N. Y., New York—Sept. 3, by J. Miller, pres. Manhattan Boro., Municipal Bldg., widening and repaving the widened portion with wood block pavement on concrete, 6th Ave., from 53rd to 59th Sts.; with sheet asphalt on concrete north side of 59th St. from 5th Ave. to Columbus Circle.

N. J., Crosswicks—Sept. 16, by Hamilton Twp. Com., W. R. Hart, clk., reconstructing 2½ mi. Old York Rd. from here to Mercer Co. line, 20 ft., gravel. C. S. Sincerbeaux, Mechanic Bldg., Trenton, engr.

N. J., Toms River—Sept. 2, by Freeholders Ocean Co., bituminous concrete paving 10,212 sq.yd. Washington St., here. $30,000. J. M. Abbott, Toms River, engr.

Pa., Clintonville—Sept. 4, at office F. K. Porter, boro. clk., grading, curbing and paving Franklin and Butler Sts.; adv. E. N.-R. Aug. 28.

Pa., Gallitzin—Sept. 5, by Boro Council, P. C. Conrad, secy., 706 Hemlock St., grading, cement curbing and paving, 7,000 sq.yd. Main, Church, Hemlock, Convent, Walnut and Short Sts., warrenite bitulithic and vitr. brick on one course rein.-con. $30,000. D. W. Dillman, 85 Altoona Trust Bldg., Altoona, engr.

Pa., Punxsutawney—Aug. 29, by Boro. Council, 11,000 sq.yd. street paving.

Delaware—Sept. 10, by State Highway Dept., Dover, grading and paving 4.578 mi. Clarks X Rds.-Maryland Line, Contr. CS-35, and 3.5 mi. Omar-Clarkville Rd., Contr. CS-36; adv. E. N.-R. Aug. 28.

La., New Orleans—Sept. 16, by A. Murphy, comr. Dept. Pub. Finance, City Hall, paving 57 streets. A. Klorer, city engr.

Ky., Sturgis—Sept. 2, at office C. Prichet, city clk., City Hall, paving, curbing and guttering various streets. J. J. Martin, mayor; adv. E. N.-R. Aug. 28.

O., Cleveland—Sept. 3, by Cuyahoga Co., paving Silsby Rd. $126,400. F. Lander, Court House, engr.

O., Columbus—Sept. 2, by W. H. Duffy, dir. Pub. Serv., grading and paving and laying necessary water services and sewer connections in 1,289 ft. Scioto Dr. 54 ft., asphalt $36,765, 550 ft. Longview Ave., brick $11,963, asphalt $9,811, 425 ft. Vida Pl., brick $9,540, asphalt $7,545; 372 ft. Ellis Pl., brick $4,982, asphalt $4,024, 1,823 ft. Brinker Ave., brick $48,455, asphalt $41,010, 1,900 ft. Westgate Ave., brick $42,024, asphalt $35,026, all above 24 ft. wide; 928 ft. Ogden Ave., brick $22,865, asphalt $18,302, 777 ft. Warren Ave., brick $18,348, asphalt $14,528, both 26 ft.; 398 ft. alley west Ohio Ave. (Granger Alley), brick $3,329, concrete $2,962, and 710 ft. alley north of 14th Ave., brick $6,766, concrete $6,054, both 20 ft.

O., Columbus—Sept. 6, by Comrs. Franklin Co., grading and paving 11,000 sq.yd. Harding Rd., and 30,000 sq.yd. Eastmore Blvd., Truro Twp., sheet asphalt, $66,271 and $137,845 respectively, ¾ mi. Miller Rd., Truro Twp. and 3.96 mi. Waggoner Rd., Truro and Jefferson Twps., both 16 ft., Truro Twp., water bound macadam, $17,-145 and $87,224 respectively.

O., Idlewood (Cleveland Heights P. O.)—Sept. 2, paving Friedel and Barrington Rds. to exceed $25,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Ind., Madison—Sept. 15 by C. Forkner, aud. Jefferson Co., concrete paving 2 mi. Van Dyke and Free Rds., 28 ft., in Anderson Twp. $35,000. M. H. Donney, City Hall, engr.

Ind., Noblesville—Aug. 30, by Commissioners Hamilton Co., grading and gravelling 4.5 mi. Shugart Rd., 24 ft. $26,120. J. S. Shannon, Noblesville, engr.

Ia., Adel—Sept. 1, by Dallas Co., grading, etc., 11.95 mi. road Private Road Project 250, 107,262 cu.yd. earth excav., 120,600 sta.yd. overhaul, 87,301 ft. tile drain, etc. $47,000. State Hy. Comn., Ames, engrs.

Minn., LeSueur—Sept. 4, by S. McMillen, aud. Le Sueur Co., improving Job 2402, State Rd. 17, 55,817 cu.yd. excav., 138,450 cu.yd. overhaul, etc.; Job 2307-B, State Rd. 35, 33,422 cu.yd. excav., 39,395 cu.yd. overhaul, etc.; Job 3401, State Rd. 33, 15,-885 cu.yd. excav., 39,395 cu.yd. overhaul, etc. $25,000. R. F. Nichols, LeSueur Center, engr.

Kan., Columbus—Sept. 3, by Clerk Cherokee Co., grading and feather edge gravel surfacing 2.768 mi. Chetopa Rd., 6,180 cu.yd. gravel, 5,320 lin.ft. guard fence, 23,535 cu.yd. excav., 200 lin.ft. 15- to 24-in. corrugated metal pipe, etc. H. W. Terrill, co. engr.

Neb., Holdrege—Sept. 3, by Clerk Phelps Co., grading, graveling, etc., 21.813 mi. Federal Aid Project 145-A. $80,000. R. Cochran, Lincoln, state engr.

Neb., Blair—Sept. 8, by Clerk Washington Co., 58,000 sq.yd. 3 in. gravel surfacing Federal Aid Project 91-A. $27,500; also 26,600 yd. grading, etc., Federal Aid Project 91-C, $26,000. R. Cochran, Lincoln, state engr.

N. D., La Moure—Sept. 4, by La Moure Co., graveling 15 mi. Federal Aid Project 94, 119,990 cu.yd. load, unload, spread, screen, 85,500 cu.yd. mi. haul, 5,550 stripping pits, etc. $25,000. W. I. Struble, co. aud.

Missouri—Aug. 29, by State Hy. Dept., Jefferson City, improving 135.595 mi. roads in St. Charles, Washington, Worth, Johnson, Ray, Pike, Saline, Vernon, Marion, Callaway, Holt, Stoddard, Randolph, Nodaway, Grundy, Ripley, Texas, Webster, Bates, Audrain, Boone and Cass Counties. B. H. Piepmeier, state highway engr.

Tex., Dallas—Koch and Fowler, Central Bank Bldg., taking bids last of August, grading, curbing, guttering and paving 5,000 sq.yd. Turtle Creek Blvd. $25,000.

Tex., Sweetwater—Sept. 5, by City Council, J. H. Boothe, Mayor, improving various streets, 8,766 sq.yd. resurfacing, 7,721 sq.yd. pavement, 2,673 lin.ft. curbing and guttering, 4,073 roadway excav., $40,000. Elrod Eng. Co., 3124 Elm St., Dallas, engrs.

Okla., Oklahoma City — Sept. 2, by M. Peshek, Jr., city clk., paving and repaving 1 mi. Robinson Ave., 1,500 sq.yd. asphalt, 4,000 cu.yd. excav., 200 ft. pile trestle, 30,000 cu.yd. earth embankment, also new channel for the river, $50,000; repairing 1 mi. Exchange Ave., 5,000 sq.yd. asphalt, 3,000 cu.yd. excav., 150 ft. pile trestle, 30 ft. wide, 45,000 cu.yd. embankment, change in river course, levee protection, etc., $70,-000. B. M. Hart, City Hall, engr.

California—Sept. 8, by State Hy. Comn., Sacramento, asphaltic concrete paving 1.7 mi. Chico Rd. and Sacramento Ave., Butte Co. R. M. Morton, state highway engr.

Calif., Marysville—Sept. 3, by Supervisors Yuba Co., concrete or asphaltic concrete paving 7.25 mi. Arboga and Plumas Rds., J. R. Meek, co. surv. Noted Aug. 21.

Calif., Los Angeles—Sept. 2, by Bd. Pub. Wks. improving 78th St. between San Pedro and Main Sts., 34,921 sq.ft. concrete paving, 34, 921 sq.ft. Warrenite bitulithic paving, 224 ft. curbing, also 63rd St. between Normandie and Western Aves., 4,242 sq.ft. 5 in. concrete paving, 131,956 sq.ft. oil and roll, 10,159 ft. curbing, 49,-430 sq.ft. sidewalks, 21,921 sq.ft. guttering. J. L. Griffin, city engr.

Calif., Los Angeles—Sept. 8, by Supervs. Los Angeles Co., improving Otis Ave. between Baker and Florence Aves., 950 cu.yd. remove disintegrated granite base, 11,-372 cu.yd. replace disintegrated granite base, 4,027 cu.yd. excav., 2,575 lin.ft. curbing, 11,227 sq.ft. guttering, 10,125 sq.yd. concrete paving.

Calif., Oakland — Sept. 8, by Supervs. Alameda Co., improving 1.8 mi. highway between Hayward and San Leandro, 8,300 cu.yd. grading, 3,800 lin.ft. concrete curb and gutter, 257,000 sq.ft. 1½ in. Warrenite bituminous on 5 in. concrete, or 2 in. Warrenite bitulithic on 5 in. concrete, etc. G. A. Posey, Oakland, co. surv. Noted June 19.

Calif., Stockton — City Council taking bids improving streets in Pacific Manor (Bonnie Brae, Pacific Ry., etc.), 15,501 cu.yd. cut, 1,275 cu.yd. fill, 13,391 lin.ft. concrete curb and gutter, 66,037 sq.ft. concrete sidewalks, 152,274 sq.ft. 2 in. asphaltic macadam on 4 in. cementing gravel, 17,080 sq.ft. 2½ in. asphaltic concrete on cement gravel. W. B. Hogan, city engr. Noted Aug. 14.

BIDS RECEIVED

Connecticut—State Hy. Dept., Hartford, concrete paving 8,054 ft. in North Canaan and Norfolk, and 8,220 ft. in North Canaan, from Osborne & Barnes, Odd Fellows Bldg., Danbury, $60,385 and $64,-965 respectively, 3,982 ft. in Ansonia, from Leverty & Hurley, 1014 Wood Ave., Bridgeport $23,591, 17,295 ft. in Watertown, and 19,210 ft. in Plainfield, from Natl. Paving Co., Inc., New Haven, $153,-476 and $127,362 respectively, 2,782 ft. in New London, from Waterbury Constr. Co., 110 Grand St., Waterbury, $37,223; asphalt macadam paving 5,350 ft. in Colbrook, from J. Mascetti, 223 Oak Ave., Torrington, $33,418, 22,000 ft. in Union, from M. A. Gammino Constr. Co., 728 Valy St., Providence, R. I., $129,633; waterbound macadam paving 10,900 ft. in Roxbury, Woodbury and Southbury and native stone macadam paving 5,000 ft. in Roxbury, from L. Langhi Bros., Inc., 43 Centre St., Torrington, $56,506 and $26,998 respectively; 1 span 52 ft. rein.-con. girder bridge, in Sterling, Windham Co., from L. E. McLoughlin, New London, $26,119. Noted Aug. 21.

N. Y., Albany — Improving Hollywood Ave., from R. C. Sheehan, Albany, $31,49 engrs. est. $40,000; extending Manning Blvd., asphalt, from M. F. Dollard, 36 State St., $153,145, engrs. est. $165,000.

N. Y., Schenectady—Bd. Contr. & Supply, improving 0.82 mi. Washington Ave., 38 ft., from W. P. McDonald Constr. Co., 512 Peek St., sidewalks, curb, etc. $106,633, top dressing $33,646. Engrs. est. $150,000.

New Jersey—State Hy. Comn., Trenton, concrete paving 37,706 sq.yd. Route 14, Sect. 10, and 37,922 sq.yd. Route 14, Sect. 11, Cape May Co., from Michael Staub, 47 South Bway., Pitman, $130,952 and $183,-915 respectively; 43,494 sq.yd. Route 3, Sect. 13, Atlantic Co., from C. T. Kavanaugh, 32nd and Prospect Sts., Bayonne, $40,172. Noted Aug. 7.

Maryland—State Rd. Comn., Baltimore, concrete paving 3.7 mi., road from Slacks Corner to Henryton, Howard Co., Contr. HO-47, from Sutton Constr. Co., 1125 Jefferson Bldg., Phila., Pa., $143,832; 1 mi. road through Oxford, Talbot Co., Contr. T-20, from P. D. Phillips & Bro., Salisbury, $29,825; 1.47 mi. road along Broad and Bay Sts. Berlin, Worcester Co., Contr. WO-40, from J. R. Phillips, Jr., Bay St. Berlin, $34,823; 1 mi. road from Denfense Highway to Landover, Prince George's Co., Contr. P-54, from Christhilf & Ensey, 1625 Ridgely St., Baltimore, $29,657. Noted Aug. 7.

Alabama—State Hy. Comn., Montgomery, Aug. 6, asphalt surfacing 17 mi. Montgomery-Birmingham Rd., 20 ft., Chilton Co., from J. R. and J. B. Miller, Baconton, Ga., $271,244. Engrs. est. $272,000.

Louisiana—State Hy. Dept., Reymond Bldg., Baton Rouge, constructing State Project 408, Sects. A and B, Richmond Parish, from R. Perry, Mobile, Ala., $31,-844.

South Dakota—State Hy. Comn. Pierre, **(F.A.P. means Federal Aid Project)**, grading 10.94 mi. F.A.P. 166, McCook Co., and 11.11 mi. F.A.P. 161, Hanson Co., from W. R. Larson, 519 Secy. Natl. Bldg., Sioux Falls, $30,574 and $27,030 respectively; 10.95 mi. F.A.P. 180C, Corson Co., from England & England, Murdo, $43,481; 14.01 mi. F. A. P. 184A, Spink Co., from Dowd Bros. & Schreiber, Watertown, $38,345. Noted Aug. 7.

CONTRACTS AWARDED

Massachusetts—Dept. Pub. Wks., Div. Highways, State House, Boston, bituminous macadam paving, 4,800 ft. highway in Boylston, to C. E. Horne, Milbury, $31,-994, 1,900 ft. in Sharon, to Morelle & Tiorle, North Attleboro, $12,219; bituminous concrete paving 6,000 ft. in Harwich, to W. A. Jones, Main St., Barnstable, $15,-192. Noted Aug. 7.

Mass., Boston—Recut granite block paving High, Kingston and South Sts., to M. F. Gaddis, 2 Victoria St., Dorchester, $25,906.

Conn., New Haven — Sheet asphalt resurfacing Green St., to C. W. Blakeslee & Sons, 58 Waverly St. Engrs. est. $25,000.

N. Y., Brooklyn—Dept. Parks, Municipal Bldg., New York, cement walks around McCarren Park plots, here, to Galco Contr. Co., 745 Dean St., $5,115, also grading and sheet asphalt paving Ft. Hamilton Parkway, to M. J. O'Hara, 717 65th St., $151,730.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, to Cranford Co., 52 9th St., asphalt paving and repaving Buffalo Ave., $39,063, to Uvalde Asphalt Paving Co., 1 Bway., New York, Hinsdale Ave. $12,690, Lawrence St., $24,434, Saratoga Ave., $21,104; to Carberry & Block, granite block paving Knickerbocker Ave., $24,191; to Harris & Bernhardt, Qentral Ave., asphalt block paving 21st St. $30,741. Noted Aug. 21.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Sub-

Streets and Roads (Continued)

way Bldg., to W. P. MacDonald Constr. Co., 17 West 42nd St., New York, grading, curbing and sidewalks on Brady St., $10,676, recurbing reflagging and asphalt paving Singer St. $11,060; to Welsh Bros. Contg. Co., 32 Queens St., Astoria, grading Caspian Ave. $5,996; to A. Pegno, 380 Freeman Ave., Astoria, grading, curbing and sidewalks Grout Ave. $16,451, Ditmars Ave. $15,184, Van Pelt Ave. $10,985; to Interstate Contg. Co., Havemeyer St. $7,510, and Lefferts Blvd. $34,293, to O. Kurth, 9519 126th St., Richmond Hill, 104th St. $27,400, 113th St. $13,802, to R. A. Hess, Inc., 14 Queens St., Astoria, Vandeventer Ave. $2,193, Tory St. $6,415, to J. Condon, 341 Cornelia St., Brooklyn, Strong St. $19,975, to Highway Impvt. & Repair Co., 501 Bloomfield Ave., Montclair, N. J., Palmetto St. $9,134, to Peace Bros., Inc., 57 North Laurence St., Flushing, Waldron St. $17,825, to Kennedy & Smith, Inc., 93 Amity St., Flushing, 122nd St. $4,810. Noted Aug. 14.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., to Welsh Bros. Contg. Co., 32 Queens St., Astoria, grading, curbing and sidewalks on Armand Pl. $3,979, Skillman Ave. $15,993, 126th St. $3,255, to J. L. O'Brien Jr., William St., Jamaica, New York Blvd. $2,998, to Interstate Contg. Co., 154 Nassau St., New York, Nicholls St. $6,200, Tiemann Ave. $21,631, Nicholls St. $12,246, to H. J. Mullin Contg. Co., Jamaica Ave. and 144th St., Jamaica, 86th Ave. $4,102, 94th St. $13,619, to Highway Impvt. & Repair Co., Bloomfield Ave., Montclair, N. J., 96th St. $24,453, to W. P. McDonald Constr. Co., 17 West 42nd St., New York, grading, curbing, sidewalks and paving Norman St. $7,010, sheet asphalt paving 94th St. $14,600, 109th St. $17,970. Noted Aug. 14.

N. Y., New York — J. Miller, pres. Manhattan Boro., Municipal Bldg., to Asphalt Constr. Co., 208 Bway., granite block repaving Telegram Sq. $26,158, Hudson St. $55,266, Duane St. $23,163, 45th St. $19,060; to Uvalde Asphalt Paving Co., 1 Bway., stone filled sheet asphalt repaving 69th St. $11,730; to Cleveland Trinidad Paving Co., Flushing, repairing asphalt pavement in railroad area $67,800. Noted Aug. 7.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro., Boro Hall, bituminous concrete repaving Richmond Rd. and North Burgher Ave., to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $23,169 and $25,056 respectively, granite block repaving Richmond Terrace, to J. J. Johnson Sons, 455 Bway., West New Brighton, $84,572. Noted Aug. 21.

N. J., Belvidere—Warren Co., concrete paving 3½ mi. Columbia-Hainesburg Rd., Knowlton Twp., to Salmon Bros., Netcong, $137,823. Noted July 31.

N. J., Freehold—Monmouth Co., Court House, paving ½ mi. Old Bridge-Matawan Rd., to Gallena & Poole, 146 East Front St., Trenton, $31,305. Noted Aug. 7.

N. J., West Orange—Purchasing Agent Essex Co., Newark, grading and paving Mt. Pleasant Ave., 9,300 sq.yd. granite block, 3,070 sq.yd. concrete, to A. Milmes, 83 Littleton Ave., Newark, $148,999. Engrs. est. $180,000.

Md., Baltimore—Bd. Awards asphalt paving 21,650 sq.yd. North Point Rd., Lakewood Ave., Chester, Duncan, McElderry, Brighton, and Jefferson Sts., to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $78,746.

Virginia—State Hy. Dept., Richmond, surfacing 3.78 mi. Gordonsville-Richmond-Charlottsville Rd., Louisa Co., incl. bridge over South Anna River, to J. M. Cowherd, Columbia, $32,090; bituminous macadam surfacing 3.55 mi. and 2.9 mi. roads, both near Bedford, to Vaughan & Draper, Roanoke, $176,655; grading 2.77 mi. Big Stone Gap Rd., Wise and Lee Counties, to R. H. Bolling, Norton, $29,349; concrete surfacing 4.533 mi. Thompson Store Rd. south, on Richmond-Washington Hy., Spotsylvania Co., incl. bridge over Massaponax Creek, to Spotsylvania Constr. Co., Highland Springs, $187,022.

W. Va., Milton—Concrete and brick paving Washington Ave. and others, to Harrison & Dean, Old Walton Bldg., Huntington. $48,000. Noted July 10.

Alabama—State Hy. Comn., Montgomery, grading 22 mi. Mobile—Selma Rd., 20 ft., Washington Co., to Fountain Constr. Co., Hattiesburg, Miss., $129,947, engrs. est. $130,000, several concrete bridges on above road, to E. Pettus & Co., Montgomery, $31,824, surfacing above road and grading and surfacing 7.7 mi. Selma-Centerville Rd., 20 ft., Dallas Co., to E. P. Toulmin, Toulminville, Mobile, $159,247 and $64,822 respectively, engrs. ests., $160,000 and $65,000 respectively; several concrete bridges on Selma-Centerville Rd., to B. Smith, Montgomery, $32,129. Noted Aug. 7.

Ala., Huntsville — Asphalt paving 10 blocks Locust and East Clinton Sts., 30 ft., to Lasley Bros., Chattanooga, Tenn., $56,000.

Minn., St. Paul — H. W. Austin, city purch. agt., removing 12,750 sq.yd. present paving, and repaving 13,865 sq.yd. 8th St., brick, to Hanlon & Okes, 1501 Merchants Natl. Bank Bldg., $51,395. Noted Aug. 7.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville (**F. A. P. means Federal Aid Project, S. A. P. means State Aid Project**), grading etc. 9.29 mi. Cleveland-Hamilton Co. line Rd., F. A. P. 78-A, Bradley Co., to J. W. Gunn & Co., Birmingham, Ala., $144,651, 6.82 mi. Trenton-Dyer Rd., S. A. P. 175-A, Gibson Co., to Cresap Bros., Humbolt, $49,321, 7.02 mi. Athens-Monroe Co. line Rd., F. A. P. 60, McMinn Co., incl. 1 bridge over 20 ft. span, to R. S. Freeman & Co., Knoxville, $38,842; grading and concrete surfacing 10.16 mi. Columbia-Mt. Pleasant Rd., F. A. P. 34, Maury Co., to Foster Creighton, 4th and 1st Natl. Bank Bldg., Nashville, $324,142; slag or crushed stone surfacing 7 mi. Crossville Rd. W., S. A. P. 130-B, Cumberland Co., also grading and surfacing with bituminous macadam on giant macadam incl. 1 concrete bridge over 20 ft. span 1.23 mi. Hartville-Sumner Co. line Rd., S. A. P. 166-B, span, to J. Oman & Co., Nashville, $65,706 each. Noted July 31.

Ohio — Dept. Highways & Pub. Wks., Columbus, grading, bridging and paving 3.812 mi. Sect. F, Zanesville-McConnellsville Rd., Muskingum Co., bituminous macadam, asphalt, to Adams Bros. Contg. Co., Muskingum Ave., Zanesville, $121,862.

Ohio — Dept. of Hys. and Pub. Wks., Columbus, grading, bridging and paving 0.994 mi. Sect. "Brilliant North," and 0.808 mi. Sect. "M-2" Ohio River Rd., Jefferson Co., concrete, to Mariner & Co., Steubenville, $83,518 and $41,803 respectively; 6 mi. Sects. D and E Upper Sandusky-Tiffin Rd., Wyandot Co., water bound macadam, to U. J. Sraib, Sycamore, $24,852.

O., Akron — Summit Co., grading and paving 4.12 mi. Cleveland-East Liverpool Rd., I.C.H. 12, to P. T. McCourt Constr. Co., 365 South Main St., $138,187, engrs. est. $150,269; 1.502 mi. Barberton-Springfield Rd. 14, Sect. C, to A. E. Guilford Constr. Co., 320 Metropolitan Bldg., $58,167, engrs. est. $66,651. Noted Aug. 7.

O., Cleveland—Cuyahoga Co., improving Superior Rd., 3,890 sq.yd. 4 in. vitr. brick paving, 21,000 lin.ft. stone curbing, 18,300 lin.ft. 4 in. gutter, 36,600 cu.yd. earth excav., and 32,610 sq.yd. concrete base, to Fisher & Williams, Lorain Rd., $289,141. Noted July 10.

O., Cleveland—Grading, curbing, guttering and asphalt paving 62,316 sq.yd. West 131st St., to Highway Constr. Co., The Arcade, $62,316.

O., Cleveland—Cuyahago Co., bituminous macadam paving 15,380 sq.yd. Taylor Rd., to A. M. Pejsa Paving Co., 3161 Derbyshire Rd., $78,691. Engrs. est. $99,600. Noted Aug. 7.

O., Dayton—Sheet asphalt paving 5,700 sq.yd. Superior Ave., to Republic Asphalt Paving Co., 801 Schwind Bldg., $27,191.

O., East Cleveland (Cleveland P. O.)—City, stone curbing, guttering and brick paving Hayden Ave., to Reiley Bros., The Arcade, Cleveland, about $25,000.

O., Euclid — Curbing, guttering and asphalt paving 16,400 sq.yd. Edgecliff Blvd., East 197th, 196th, 199th and 200th Sts., to F. B. Stein, Euclid, $59,959.

O., Garfield Heights (Cleveland P. O.)—Curbing and vitr. brick paving Sladden Rd., to Enterprise Paving & Constr. Co., 8444 Bway., Cleveland, $30,500.

O., Lisbon—Bd. of Control, resurfacing 1¼ mi. Canton Hill, 20 ft. to H. C. Armstrong, Canton, $25,080. Engrs. est. $25,000.

O., Youngstown—Mahoning Co., widening 2½ mi. Boardman Rd. from 16 to 30 ft., brick, to Olson Constr. Co., Mahoning Bank Bldg. $161,000. Engrs. est. $160,000.

O., Zanesville—Muskingum Co., improving Maysville Pike, surface treated macadam, to J. W. Carey, Ada, $70,866. Engrs. est. $75,000. Noted June 26.

Ia., Davenport—Improving 5 streets and avenues, 8,379 sq.yd. bitulithic paving, 6,935 lin.ft. curb and gutter, to Central Eng. Co., 809 Putnam Bldg., $31,032; 6 alleys, 7,130 sq.yd. 6 in. concrete, to Iowa Constr. & Eng. Co., 419 Harrison St., $13,190.

Ia., Primghar—O'Brien Co., improving 13 mi. road, Project 335, to O. W. McNamara, Sioux Falls, S. D., $0.223; Proposal 384, Sect. A, to A. Vander, Schaap & Vander, Hull, Ia., at $0.319, Sect. B, to J. L. Mauly, at $0.33, 2½ mi. gravel surfacing township road, to H. L. Bone & Son, Royal, at $1,183; 1 I-beam span bridge and 12 culverts, to H. C. Jenson Co., Thompson, $9,810.

Michigan — State Hy. Dept., Lansing, grading and surfacing 1.83 mi. State Trunk Line Rd. 54-3-A, 17,395 sq.yd. gravel, to Pickett, Armantroul & Goodwin Bros., Pullman, $21,077.

Michigan — State Hy. Dept., Lansing, grading and surfacing 0.52 mi. State Trunk Line Rd. 92-2, Washtenaw Co., to J. H. Lowe, Kalamazoo, $23,221.

Michigan — State Hy. Dept., Lansing, grading and surfacing 2.122 mi. State Trunk Line Rd. 11-58, Oceana Co., 22,640 sq.yd. concrete, to Hersey Gravel Co., Hersey, $62,873.

Michigan — State Hy. Dept., Lansing, will surface 5.13 mi. Federal Aid Project 67 E1, 54,176 sq.yd. concrete, and 5.493 mi. Federal Aid Project 67 E2, 58,001 sq.yd. concrete, both Washtenaw Co., by day labor. G. C. Dillman, ch. engr.

Mich., Detroit—To Otis Cement Constr. Co., 806 Hammond Bldg., paving with one course concrete, 2,400 sq.yd. Alley 2000 $5,995, 1,350 sq.yd. Alley 2002 $3,455, 1,350 sq.yd. Alley 2005 $3,378, 1,300 sq.yd. Alley 2006 $3,297, 1,200 sq.yd. Alley 2007 $3,044, 1,220 sq.yd. Alley 2008 $3,070, 1,080 sq.yd. Alley 2009 $2,787, 910 sq.yd. Alley 2010 $2,274, 910 sq.yd. Alley 2011 $2,290; to McKenna Trucking Co., 3559 Holcomb Ave., 2,300 sq.yd. Alley 2001 $3,259, 420 sq.yd. Alley 2004 $1,306; to C. L. Lincoln, 8074 East Canfield Ave., 1,000 sq.yd. Alley 2003 $2,585.

Mich., Detroit—Paving with 3½ in. sheet asphalt on 8 in. concrete, 11,210 sq.yd. Tireman Ave., to Detroit Asphalt Paving Co., 409 Free Press Bldg., $48,165. Noted Aug. 21.

Mich., Detroit — To Cleveland Trinidad Paving Co., 402 Hammond Bldg., paving with 3½ in. sheet asphalt on 8 in. concrete 6,200 sq.yd. Florence Ave., Sect. 1, $30,753; to C. L. Lincoln, 8074 East Canfield Ave., 6,890 sq.yd. Maine Ave., Sect. 1, $22,340; to Detroit Asphalt Paving Co., 409 Free Press Bldg., 3,010 sq.yd. Kirkwood Ave. $15,075, 22,100 sq.yd. Mack Ave., Sect. 3, $109,856, 3,070 sq.yd. Livernois Ave., Sect. 3, $15,338, 7,900 sq.yd. Livernois Ave., Sect. 4, $39,481, 14,700 sq.yd. Livernois Ave., Sect. 5, $89,611, 33,500 sq.yd. Van Dyke Ave., Sect. 2, $144,167, 32,810 sq.yd. Van Dyke Ave., Sect. 3, $137,802, 34,300 sq.yd. Van Dyke Ave., Sect. 4, $144,204.

Wisconsin—State Hy. Comn., Madison, to La Crosse Dredging Co., 405 Plymouth Bldg., Minneapolis, Minn., improving Winona Dump Rd., Projects 340A and 87, Buffalo Co., 5,439 cu.yd. earth excav., at $0.31 per cu.yd., 10,689 cu.yd., loose rock excav. $0.615, 2,000 cu.yd. solid rock excav. $1.50, 157,048 cu.yd. embankment borrow, $0.295, etc., total $67,062.

Wisconsin—State Hy. Comn., Division 3, Nicolet Bldg., Green Bay, improving 9.57 mi. Mountain-Lakewood Rd., Federal Aid Project 338, Oconto Co., to Muth & Knetchel, Manitowoc, 100,803 cu.yd. earth excav. at $0.34 per cu.yd., 1,815 cu.yd. loose rock excav, $2,595 cu.yd. solid rock excav. $3.90, etc., total $70,096. Noted July 31.

Wis., Kenosha — Paving Fairfield Ave. and Pearl St., asphaltic concrete, to H. J. Glover & Son, Schwartz Bldg. $26,545; Orchard and Edward Sts., rein.-con., to Brennan & Bounsell, 305 Main St., $18,275.

Wis., Milwaukee — Vibrolithic concrete paving Fond du Lac Ave., 49th, Lake and 36th Sts., concrete paving 2 alleys, and concrete sidewalks on 32nd Ave. and Orchard Pl., to Kroening Constr. Co., 39th Ave. and Mitchell St., $82,239; concrete paving 1 alley, to Parkinson Constr. Co., 322-27th St., $2,302, alley, to J. Bluhm & Son, 1298 Achilles Pl. $10,063, alley, to A. Retzlaff, 868 Island Ave., $3,852; asphaltic concrete paving Murray Ave., to Badger Constr. Co., 97 Wisconsin St., $44,446; granite block paving east approach to North Ave. Bridge, to R. H. Gumz, 831-13th Ave., $5,730. Noted July 31.

Wis., Milwaukee—Dept. Pub. Wks., concrete curbing and guttering Orchard Pl., to Milwaukee Genl. Constr. Co., 427 Mitchell St., $1,250, Pratt St., to W. Vanderboom, 97 32nd St., $1,647; vibrolithic concrete paving 37th and 39th Sts., to R. H. Gumz, 831 13th Ave., $9,701; concrete

Streets and Roads (Continued)

paving 1 alley, to Schwerm Bros., 50 Lee St., $6,185, 1 alley, to F. Hildebrand, 1040 23rd Ave., $3,603, 3 alleys, to F. Blodgett, 521 Newton Ave., $13,392, 3 alleys, to Kroening Constr. Co., 39th Ave. and Mitchell St., $8,729.

Wis., North Milwaukee—W. E. Chase, city clk., grading and vibrolithic concrete paving 6,840 sq.yd. 38th and 39th Sts. to Milwaukee Genl. Constr. Co., 427 Mitchell St., Milwaukee, $21,950, 717 sq.yd. Hampton Ave., also grading and one course concrete paving 6,290 sq.yd. 7 alleys, to Kroening Constr. Co., 39th Ave. and Mitchell St., Milwaukee, $19,968. Noted July 31.

Minnesota—State Hy. Dept., St. Paul, grading 15 mi. Sauk Center-Freeport Rd., to Johnson, 506 Harrison St., St. Paul, $47,220, culverts on same, to McCree Co., 712 Merchants Natl. Bank Bldg., St. Paul, $2,726, 11.5 mi. Shakopee-Jordon Rd., to D. W. Moore, 894 Edmund St., St. Paul, $32,134, culverts on same, to Lundin Bros., Mankato, $8,303, 16 mi. Jordon Rd. south, to J. J. and M. S. Mergens, 400 Temple, St., Minneapolis, $72,730, culverts on same, to Lundin Bros., Mankato, $18,562, 15 mi. Wheaton Rd., north, to M. Rudnick, Alexandria, $45,632, culverts, to C. Swedberg, Wheaton, $1,655, 75 ft. bridge, to A. E. Anderson, Sebeka, $8,395, 12.5 mi. Wolverton Rd., north, to S. G. Enebek, Warren, $36,976, culverts, to E. Mattson, 114 West Rose St., St. Paul, $8,194, 4.5 mi. Crookston Rd., west, incl. 30 ft. bridge, to Iowa Bridge Co., 317 McKnight Bldg., Minneapolis, $1,789, 4 mi. Echo Rd. north, to Lobnitz Grading Co., Olivia, $10,213, culverts, to Pederson Bros., Montevideo, $538; grading and paving 3.5 mi. at Melrose, aand paving 3 mi. at Sauk Center, to Ostrand & Hallet, Crosby, $106,446 and $82,604 respectively.

Minn., St. Cloud — Paving, etc., about 30,693 sq.yd. various streets in Impvt. Dist. 532, bitulithic, to Lawrence & McCann, Eveleth, $94,117. Noted Aug. 7.

Kan., Kansas City — Wyandotte Co., grading and concrete paving, etc., 2.5 mi. Fairfax-Hallock-Reimer Rd., 18 ft., to Tibbetts & Pleasant, 209 North Nogales St., Tulsa, Okla., $115,254. Noted May 29.

Ark., Camden—Grading, concrete curbing, guttering and hard surfacing Paving Dist. 7, to C. L. Besler, Camden. Engrs. est. $35,000.

Tex., Cleburne—Paving with 2 in. bitulithic on 5 in. concrete, North and South Main Sts., to West Texas Constr. Co., Cotton Exchange Bldg., Ft. Worth, $169,125. Engrs. est. $150,000.

Tex., Houston—Paving Jackson St. from Pierce to Tuam Sts., rock asphalt on concrete, to S. Shambaugh, 1401 Dowling St. $26,567. Engrs. est. $25,000. Noted Aug. 14.

Oklahoma—State Hy. Dept., Oklahoma City, grading, etc., Federal Aid Project 69-A, to A. A. Davis, Exchange Bldg., Oklahoma City, $28,291. Noted Aug. 7.

Okla., Oklahoma City—Resurfacing and patching 4 blocks Everest Ave., asphalt willite, to Western Paving Co., Tradesmens Natl. Bank Bldg., $27,452.

Idaho — Bureau of Highways, Boise, crushed rock surfacing 11 mi. North and South Highway between Whitebird and Grangeville, Federal Aid Project 6, Idaho Co., to Woodruff & Wilson, Odessa, Wash., $43,163.

Wash., Seattle—Bd. Pub. Wks., curbing and concrete paving, etc., North 49th St., et al, to J. B. Covello, 1510-16th St., S., $57,537. Engrs. est. $65,673.

Ore., Portland—Dept. Pub. Wks., improving 4,550 ft. Cumberlain Rd. from west line of Shenandoah Terrace, to west line of Western Terrace, 30 ft., to Cochran Constr. Co., 108½ South Jersey St., $55,615.

Calif., Fairfield — Supervs. Solano Co., 2,459 ft. asphaltic concrete paving near Cordelia, also 8,100 ft. near Suisun City, to United Constr. Co., Vallejo, $31,650. Noted Aug. 14.

Calif., Redwood City — Supervs. San Mateo Co., waterbound macadam paving San Bruno Rd. from Mission Rd. to Market St., to A. J. Grier, 480 Chetwood St., Oakland, $24,899. Noted July 31.

Calif., San Jose—Santa Clara Co., paving Watsonville Rd., oil macadam, to San Jose Paving Co., Dupont and San Carlos Sts., $65,000.

Calif., Hawthorne — Improving Delaware Ave., to G. R. Curtis, 2440 East 26th St., Los Angeles, grading at $3,000, 3,352 ft. curb $0.75 per ft., 16,887 lin.ft. sidewalks $0.32, 9,094 sq.ft. 5 in. gutter $0.26, 94,139 sq.ft. 1½ in. willite on 2½ in. asphaltic concrete $0.23, 27 lighting standards $290 each, total approximately $40,125. Noted Aug. 7.

Calif., San Luis Obispo—For 5 in. concrete paving, etc., Marsh St., etc., to G. A. Simpson, Olson Bldg., Burbank, approximately $109,350. Noted June 19.

Quebec—Provincial Government, Quebec, oiling roads in Laval and Jacques Cartier Counties, to Imperial Oil, Ltd., 918 St. Patrick St., Montreal, $26,469. Engrs. est. $30,000.

Ont., Bridgeburg — Concrete and sheet asphalt paving 12,000 sq.yd. various streets, to Godson Contg. Co., Manning Chambers, Toronto, $36,500. Engr. est. $40,000.

Ont., Oshawa—Asphalt paving 6 streets, to Standard Paving Co. Ltd., Elgin St., Ottawa, $45,000.

B. C., New Westminster—Asphaltic macadam surfacing about 4 mi. Dewdney Trunk Rd., to General Constr. Co., Vancouver Bldg., Vancouver, $60,000.

B. C., Vancouver—Hard surfacing various streets, asphaltic concrete, to Cotton Co., Ltd., False Creek Yards, $34,126, and Columbia Bitulithic Co., 402 Pender St., W., $7,218; one course portland cement, to C. P. Collord, 626 Pender St., W., $26,871.

Buildings—Industrial

PROPOSED WORK

Mass., Lynn—Factory—Thompson Electric Welding Co., 161 Pleasant St., having plans prepared 1 story, factory addition. To exceed $40,000. H. M. Haven & Hopkins, 11 Beacon St., Boston, engrs.

R. I., Westerly—Plants—Bradford Dyeing Assn., plans two large brick and steel manufacturing plants. $2,000,000. W. Ward, pres.

Conn., Bristol — Factory — E. Ingraham Co., 392 North Main St., plans two 1 story additions, one 76 x 200 ft. and other 80 x 80 ft., brick and steel, North Main St. $60,000-$75,000.

Conn., Greenwich—Garage—Tyson Motor Sales Co., 116 Greenwich Ave., plans 60 x 155 ft., brick, Boston Post Rd., $50,000. F. Urso, Spelke Bldg., Main St., archt.

Conn., New Haven—Laundry—Shalett & Lichter, Inc., 155 Park Ave., having plans prepared by O. H. Abramowitz, 42 Church St., 2 story and basement, 30 x 110 ft., brick and steel, plain foundation, Park Ave. $40,000.

Pa., Erie — Plant — Erie Lithographing Co., Erie, having plans prepared by H. Hake, Telephone Bldg., Cincinnati, O., 3 story and basement, 80 x 333 ft., 4th and State Sts. $200,000.

Md., Baltimore — Shop — Bd. of Fire Comrs., plans repair shop, at Key Highway and Webster St $65,000 to $100,000.

Va., Covington — Mill — Hollingsworth & Vose, 333 Washington St., Boston, Mass., purchased 320 acre site and plans 1st unit of plant, here. $1,500,000 to $2,000,000. Engineer and architect not selected.

Ala., Dothan — Plant — Plans to issue $750,000 bonds completing hydro-electric plant at Chalkers Bluff, near here.

Wis., Madison — Power Plant — Madison Gas and Electric Co., c/o J. St. John, mgr., 100 North Fairchild St., plans brick, rein.-con. and steel electric generating plant, plain foundation. Engineer and architect not selected.

Wis., Mayville — Plant — Mayville White Lime Co., C. Ruedebusch, pres., plans rebuilding 2 story, brick plant, recently destroyed by fire. $75,000. Engineer and architect not selected.

Wis., Middleton—Factory—Valecia Milk Co., Washington Bldg., Madison, having plans prepared by F. Kronenberg, Carroll Bk., Madison, 2 story, 30 x 42 ft., rein.-con. and brick addition, plain foundation. $40,000.

Calif., Beverly Hills—Plant—Globe Ice Cream Co., 230 West Jefferson St., Los Angeles, having plans prepared 2 story, rein.-con. ice and ice cream manufacturing plant, Santa Monica Blvd. $250,000. Private plans.

Calif., Elmhurst — Sub-Station — Pacific Gas & Electric Co., 445 Sutter St., San Francisco, plans rein.-con. sub-station, 92nd Ave. $250,000 or more. Private plans.

Calif., Los Angeles — Factory — Fairbanks-Morse Co., 427 East 3rd St., plans factory. $750,000 to $1,000,000. Engineer and architect not selected.

Calif., Los Angeles—Shop—Grinnell Co. of the Pacific, 520 Mateo St., having plans prepared 1 story, 95 x 95 ft., steel and corrugated iron, 4th and Mateo Sts., Austin Co., 777 East Washington St., engrs.

Calif., Los Angeles — Truck Storage — Mack International Motor Truck Co., 1628 East 7th St., had plans prepared by J. M. Cooper, 321 Marsh-Strong Bldg., 2 story and basement, 250 x 300 ft., rein.-con., and 1 story and basement, 135 x 900 ft., concrete and brick truck storage and service plant, Long Beach Ave., 21st and Alameda Sts. $350,000.

Calif., San Francisco—Laundry—Sanitary Laundry Co., 15 McCoppin St., B. Dietrich, pres., plans laundry, 17th, Bear Hampshire St. To exceed $40,000.

Calif., Watsonville — Plant — Union Ice Co., 354 Pine St., San Francisco, plans ice manufacturing and cold storage plant. $350,000-$500,000.

BIDS DESIRED

Mass., Malden—Factory—Malden Spinning & Dyeing Co., 257 Commercial St., taking bids 4 story 70 x 135 ft., rein.-con. and brick, Commercial St. E. R. Simpson, 176 Federal St., Boston, engr. and archt.

Mass., Woburn — Sub-Station — Edison Electric Illuminating Co., 39 Boylson St., Boston, taking bids Sub-Station 58, 1 story and basement, 64 x 66 ft., brick, Green St. and Eastern Ave., here. $40,000. Bigelow & Wadsworth, 120 Tremont St., Boston, archts.

R. I., Providence — Boiler House — Aug. 30, by Narragansett Electric Lighting Co., 100 x 149 ft., brick and steel, Eddy St. $50,000. Jenks & Ballou, 10 Weybosset St., consult. engrs. Noted Aug. 21.

Conn., New Britain—Factory—Aug. 29, by M. J. Unkelbach, archt., 162 Main St., 3 story and basement, factory and 1 story annealing building, rein.-con., brick and steel, for Vulcan Iron Wks., 63 John St. $100,000.

Pa., McKees Rocks — Manufacturing — Hachmeister Lind Chemical Co., McKees Rocks, will build 2 and 3 story and basement, 55 x 110 x 131 ft., brick and steel. Work will be done by separate contracts. Private plans.

Pa., Pittsburgh—Bakery—P. H. Butler Co., 17th and Pike Sts., taking bids and open same about Aug. 29, 4 story and basement, 100 x 140 ft., brick, steel and concrete, 4119 Liberty Ave., $200,000. Hunting & Davis, Century Bldg., archt. Noted Aug. 14.

Md., Baltimore — Factory — Sept. 1, by C. M. Anderson, archt., 9 East Pleasant St., 5 story and basement, 40 x 80 ft., brick and concrete, plain foundation. Pratt St. and Bway., for Goodwin Industries Inc., 207 South Bway. $65,000.

O., Cleveland—Plant—Cleveland Electric Illuminating Co., Illuminating Bldg., Public Sq., taking bids 4 story and basement, 115 x 238 ft. steam power plant, brick, steel and concrete, 1830 Lakeside Ave. $1,000,000. E. J. Cook, c/o owner, engr.

Ind., Anderson—Factory—Sept. 1 (extended date), by Hughes-Curry Packing Co., c/o C. E. Hughes, 1800 West 8th St., 2 story and basement, 70 x 144 ft., brick, West 8th St. $100,000. Noted July 31.

Wis., Eden—Cannery—Stephens Canning Co., Elkhart Lake, O. Stephens, pres., taking bids 2 and 3 story, brick and timber, plain foundation, here. $75,000. Private plans.

Wis., North Milwaukee—Gates Eng. Co., engrs., 418 Jackson St., Milwaukee, taking bids 2 story and part basement, 114 x 180 ft., brick and timber, plain foundation, Hampton Ave., for J. Greenbaum Tanning Co., Hampton Ave. Noted Aug. 14.

Wis., Racine — Factory — A. L. Flegel, archt., 208 Baker Block, taking bids 2 story, 40 x 60 ft., brick and timber, or brick and concrete, plain foundation, Mead St., for Reliance Automatic Lighting Co., 510 College Ave. $40,000.

Calif., Los Angeles—Loft and Factory—Cheek Neal Co., Cummins Sta., Nashville, Tenn., had plans prepared by J. M. Cooper, Marsh-Strong Bldg., 2 story, 100 x 100 ft., East 4th St. To exceed $100,000. Work will probably be done by separate contracts under supervision of architect.

CONTRACTS AWARDED

N. Y., Watervliet—Factory—Foreman & Clark Mfg. Co., 2 story, 137 x 322 ft., rein.-con., brick and steel, plain foundation, 24th St., to Great Western Constr. Co., 68 West Monroe St., Chicago, Ill. $242,000. Noted Aug. 14.

Pa., Glendale—Factory—O. Hommel Co., Carnegie, general contract, 1 story, 30 x 150 ft., bronze and paint factory, Rope Way, to A. B. Morris, 519 West Main St., Carnegie. Archts. est. $40,000.

Pa., Sands Eddy (mail Easton)—Plant—Bath Portland Cement Co., Finance Bldg., Phila., Pa., cement mill plant, here, to Public Service Production Co., 80 Park Pl., Newark, N. J.

Buildings—Industrial (Continued)

O., Ashtabula—Plant—City, 40 x 55 ft., 72 ft. high, power plant addition, brick, steel and concrete, to Alexander Bros., Williamson Bldg., Cleveland. Archts. est. $60,000.

O., Cleveland — Automatic Substation—Cleveland Railway Co., Hanna Bldg., c/o G. L. Radcliff, pres., 1 story, 40 x 43 ft., rein.-con. and brick, to Craig-Curtiss Co., 4614 Prospect Ave. Engrs. est. $40,000.

O., Hamilton — Factory and Office — Champion Coated Paper Co., 2 story and basement, 64 x 172 ft., rein.-con., and brick, to F. K. Vaughn Building Co., Dayton and Lowell Sts., about $85,000.

Wis., Marinette—Saw Mill—M and M Box Co., Homer St., will rebuild 2 story, brick, plain foundation saw mill recently destroyed by fire, by day labor. Private plans. H. Greene, 559 Marshall St., Milwaukee, pres.

Mo., Kansas City — Service — Red Star Yeast & Products Co., 79 Buffalo St., Milwaukee, Wis., 1 story, 50 x 130 ft., brick, plain foundation, to J. Gosling, 243 Ry. Exch. Bldg. Engrs. est. $50,000. Noted Feb. 28.

Tex., Dallas — Factory — Atlas Metal Wks., 2201 Houston St., will build steel factory, Houston St., by day labor. $40,000. Private plans.

Calif., Fresno—Packing Plant—Malaga Packing Co., J. F. Niswander, Willow and Butler Ave., 1 story, 90 x 134 ft., rein.-con. and brick, East St. and California Ave., to J. McCollough, 925 Forthcamp St., $45,000 or more.

Calif., Giant—Plant—Giant Powder Co., 1st Natl. Bank Bldg., San Francisco, labor only, for approximately 11 frame and corrugated iron buildings, to G. Anderson, 920 Franklin St., Oakland, $65,000. Noted Aug. 13.

Buildings—Commercial

PROPOSED WORK

Mass., Cambridge (Boston P. O.) — Apartment—F. W. Norris & Co., 31 Milk St., Boston, plans apartment building. $800,000. Private plans.

Mass., East Boston (Boston, P. O.)—Garage—Syndicate, c/o Sutherland & Sutherland, archts., 79 Summer St., Boston, having plans prepared 1 story and basement, 105 x 160 ft., rein.-con. and stone, here. $150,000. J. McDonald Constr. Co., 79 Summer St., Boston, engrs.

Mass., Medford — School — City having preliminary plans prepared by M. A. Dyer, 1 Beacon St., Boston, Junior High School, 2 story and basement, brick, Auburn St. $375,000. Noted Aug. 7.

R. I., Cumberland—High School—Town plans brick high school. $150,000. Engineer and architect not selected.

R. I., Woonsocket—High School—School Bd. having skteches prepared by W. Fontaine, Woonsocket, 2 story and basement, brick and steel. $300,000.

Conn., Danielson—School and Convent—St. James Church, having preliminary plans prepared by H. F. Ludorf, 122 Main St., New Britain, 2 story and basement, addition. $200,000.

Conn., East Hartford (Hartford P. O.)—School—Town, plans school in Meadow Fire Dist. $150,000.

Conn., Hartford — Sales and Service — Capitol Buick Co., 326 Pearl St., plans salesroom, garage and service station, Washington St. $150,000.

Conn., New Britain—Bank—Commercial Trust Co., 274 Main St., having plans prepared by A. Hopkins, 101 Park Ave., New York City, 6 story and basement, 55 x 135 ft., brick and steel, plain foundation, West Main St. $450,000.

Conn., Wallingford—Sanitarium—Gaylor Sanitarium, having sketches made by J. F. Kelly, 39 Center St., New Haven, 2 story, brick, stucco and terra cotta. $175,000.

N. Y., Johnstown — High School — Bd. Educ. soon lets contract brick, steel and stone, plain foundation. $325,000. Tooker & Marsh, 101 Park Ave., New York City, archts.

N. Y., New York—Bank and Office—U. S. Mortgage & Trust Co., 55 Cedar St., soon takes bids 5 story, brick, steel and stone, plain foundation. Bway and 73rd St. $300,000. H. O. Chapman, 171 Madison St., archt. and engr.

N. J., Lawrenceville—School—Lawrenceville Preparatory School having plans prepared by Delano & Aldrich, 126 East 38th St., New York City, school addition. $250,000.

N. J., New Brunswick — School — Bd. Educ. plans addition to Bayard School. $150,000. Engineer and architect not selected. E. H. Webb, College Ave., chn.

Pa., Johnstown — Amusement — Grand Amusement Co., c/o F. G. Fanagotocas, 507 Main St., having plans prepared by H. Childs Hodgens, Inc., 130 South 15th St., Philadelphia, Pa., 1 story and basement and balcony Main St. $200,000.

Pa., Johnstown—Theatre—Grand Amusement Co., 507 Main St., having sketches made by Hodgens & Hill, 130 South 15th St., Phila., 1 story and basement, theatre. $200,000.

Pa., Pittsburgh — Commercial — Exhibitors Supply & Sign Exch. Co., 1000 Forbes St., having plans prepared, 8 story and basement, 22 x 130 ft., brick, steel and rein-con., Gibbon St. $150,000. Private plans.

O., Berea — High School — Bd. Educ. plans 3 story, brick, steel and concrete, $400,000. Engineer and arcihtect not selected. J. S. Simpson, pres.

O., Canton — Community — First Christian Church, 400 Cleveland Ave., S. W., plans 4 story and basement, 74 x 85 ft. community building, 64th St. and Cleveland Ave., S. $150,000.

O., Cleveland—Commercial and Restaurant—Gasser Building Co., c/o R. H. Jamison, Bulkley Bldg., having plans prepared by H. K. Ferguson Co., 4900 Euclid Ave., 3 story and basement, 67 x 190 ft., brick and steel, 10609 Euclid Ave. $175,000.

O., Cleveland — Garage — L. Loveman, 2294 East 55th St., plans 2 story and basement, 100 x 250 ft., brick and rein.-con., 5336 St. Clair Ave. $150,000. Engineer and architects name withheld.

O., Cleveland — Hospital — St. Lukes Hospital, c/o J. R. Mills of Carnegie Steel Co., Rockefeller Bldg., having plans prepared by Hubbell & Benes, 4500 Euclid Ave., two 4 story and basement, brick, steel and concrete, East 116th St. $2,000,000. Noted Jan. 31.

O., Cleveland—School—Bd. Educ. having plans prepared by W. R. McCornack, 6th St., St. Clair Bldg., 2 story and basement, concrete, brick and steel, Harvard Ave. $250,000. F. G. Hogan, 6th St. and Rockwell Ave., dir.

O., Cleveland—School—Bd. Educ. having plans prepared by W. R. McCornack, East 6th St. and St. Clair Ave., 2 story and basement, brick, steel and concrete, Baltic Rd. $150,000. F. G. Hogen, 6th St. and Rockwell Ave., dir.

O., Cleveland—School and Parish House—Annunciation of the Blessed Virgin Mary, c/o R. V. Hyland, pastor, 1007 Superior Ave., having plans prepared by E. S. Stanton, 458 Erie Bldg., 1 story, 61 x 168 ft., brick and steel, West 130th St. and Bennington Ave. $150,000.

O., Dayton—Home—Sisters of Precious Blood, Salem Pike, plans 3 story, 80 x 200 ft., rein.-con. and brick, Salem Rd. $200,000. H. W. Germann, Schwind Bldg., archt.

O., Fairview (Mail North Olmstead)—School—Election Nov. 4. $160,000 bonds brick, steel and concrete school. Fuller & Taylor, 8120 Euclid Ave., Cleveland, archts.

O., Lakewood — Apartment — L. Cahn, 10615 Grantwood Ave., Cleveland, having plans prepared by A. T. Janowitz, 811 Prospect Ave., two 3 story and basement, brick and timber. Lake Ave. $300,000.

Ind., Muncie—City Hall—City plans 2 story and basement, brick and stone, Jackson St. $175,000.

Mich., Detroit—Temple—Findlater Lodge, F. A. & A. M., 437 Artillery Ave., having plans prepared by G. W. Graves, 233 John R St., 3 story and basement, 35 x 105 ft., rein.-con., brick and steel, plain foundation, Lafayette Blvd., $200,000.

Mich., Ecorse—School—School Dist. 11, Melvindale, having plans prepared by Van Leyen, Schilling, Keough & Reynolds, 3440 Cass Ave., Detroit, 2 story and basement, rein.-con., brick and stone, plain foundation. $170,000.

Mich., Grand Rapids—Hospital—C. R. Sligh, c/o Williamson, Crowe & Proctor, archts., 611 Gilbert Blk., having plans prepared 3 story and basement, 44 x 148 ft., rein.-con., plain foundation, Knapp Ave. $180,000.

Ill., Cairo — High Schools — Bd. Educ. soon takes bids two 2 story and basement, concrete, brick and stone. $300,000. J. W. Royner, Flat Iron Bldg., Urbana, archt.

Ill., Chicago—Office—J. R. Thompson, 350 North Clark St., having plans prepared by A. S. Alschuler, Inc., 28 East Jackson Blvd., 8 story and basement, 52 x 100 ft., rein.-con. and brick, plain foundation, Ohio St. and Michigan Blvd. $500,000.

Ill., Chicago — Temple — Independent Order of Foresters, 155 North Clark St., having plans prepared by Doerr, Lindquist & Doerr, 7 West Madison St., 4 story and basement, 62 x 150 ft., rein.-con., brick and Bedford stone, plain foundation, 1016 North Dearborn St. $185,000.

Ill., Cicero — School — High School Bd. Educ. having plans prepared by Ashby & Schulze, 1511 West Jackson Blvd., 2 story and basement, rein.-con., brick and steel, plain foundation. $350,000.

Wis., Kenosha—Church—First Methodist Episcopal Church, E. Martin, pastor, 454 West St., soon takes bids 2 story, 62 x 220 ft., stone and concrete, plain foundation, $500,000. Childs & Smith, 720 North Michigan Blvd., Chicago, Ill., archts. Noted May 8.

Wis., Milwaukee—Business—G. Watts & Son, 424 Milwaukee St., plan 2 story (ultimately 6 story), and basement, concrete and brick, plain foundation, Mason St. $150,000. Engineer and architect not selected.

Wis., Milwaukee — Hospital — City soon takes bids 2 story and basement, 47 x 272 ft., brick and concrete addition to isolation hospital, plain foundation, Mitchell St. $160,000. C. E. Malig, City Hall, archt. Noted Nov. 29.

Wis., Milwaukee—Store and Office—M. L. Annenberg, 376 East Water St., plans 4 and 2 story, brick and concrete, plain foundation, 27th and Wells Sts. $150,000. Engineer and architect not selected.

Kan., Chanute — Schools, etc. — Election soon to issue $250,000 bonds for additions to Senior and Junior high schools, home economics building, etc. T. W. Williamson & Co., 312 Central Natl. Bank, Topeka, archts.

Kan., Topeka—Office—Nat'l Reserve Life Insurance Co., 811 Kansas St., soon takes bids 12 story and basement, 75 x 100 ft., rein.-con., steel, brick, stone and terra cotta, 10th and Kansas Sts., R. E. Scamell, 614 New England Bldg., archt. Noted Mar. 13.

Minn., Duluth—High School—Bd. Educ., 226 North 1st Ave., E., having preliminary plans prepared by Holstead & Sullivan, archts. and engrs., 407 Palladio Bldg., 3 story and basement, 240 x 300 ft., rein.-con., brick and stone, 4th St. and 44th Ave., W. $700,000.

Okla., Newkirk—Court House and Jail—Kay Co. plans 2 story and basement, 120 x 180 ft., rein.-con. and brick, plain foundation. Main St. $175,000. Engineer and architect not selected.

Calif., Calexico — Hotel and Store — S. Silverberg having plans prepared by Russell & Alpaugh, 1106 Story Bldg., Los Angeles, 100 x 132 ft., rein.-con. and stucco. $265,000. J. M. Windette, Story Bldg., Los Angeles, engr.

Calif., El Cerrito—City Hall and Firehouse, etc.—Plans election $150,000 bonds to erect city hall, playground and firehouse.

Calif., Glendale—City Hall, Fire Stations and Civic Center—Plans election approximately $750,000 bonds for city hall, fire stations, and civic center. A. J. Van Wie, city clk.

Calif., Glendale — Mausoleum — L. Davis, c/o Grand View Cemetery, Grand View Ave., plans rein.-con. and steel mausoleum in Grand View Cemetery. To exceed $250,000.

Calif., Inglewood—Hotel—Union Investment Co., 124 North Market St., having plans prepared, 3 story and basement, 125 x 150 ft., brick. Private plans.

Calif., La Verne—Orphanage—Home Mission Society of Methodist Episcopal Church, c/o W. H. Weeks, archt., 369 Pine St., San Francisco Co., had plans prepared 2 story, rein.-con. home for orphans. $150,000.

Calif., Los Angeles—Exchange—Southern California Telephone Co., 740 South Olive St., having plans prepared by Parkinson, Tile Insurance Bldg., 3 story (ultimately 5 story) and basement, 75 x 80 ft., brick, rein.-con. and steel, Vermont Ave.

Calif., Los Angeles—Hotel—C. H. Clay, c/o C. F. Whittlesey, archt., 6533 Hollywood, preparing plans 7 story and part basement, 20 x 40 x 125 ft., reinforced concrete, Gladys Ave. and 8th St.

Calif., Los Angeles — Warehouse — Wilshire Fireproof Storage Co., 116 South Western Ave., having plans prepared, 2 story, 60 x 100 ft., rein.-con. annex, South Western Ave. E. T. Flaherty Co., I. W Hellman Bldg., engr.

Buildings—Commercial (Continued)

Calif., Los Angeles—Warehouse—R. H. Arnold, c/o J. M. Cooper, archt., Marsh-Strong Bldg., having plans prepared 5 story, 140 x 220 ft., rein.-con., McGarry St. To exceed $250,000.

Calif., Los Gatos — Hotel, etc. — L. V. Gaffney, c/o Shea & Shea, archts., Chronicle Bldg., San Francisco, having plans prepared 200 room hotel, golf course and swimming pool. $600,000.

Calif., Sacramento — Exchange — Pacific Telephone & Telegraph Co., 333 Grant Ave., San Francisco, plans 4 or 5 story and basement, 80 x 160 ft., fireproof construction, K St. between 14th and 14th Sts. $150,000 or more. Private plans.

Calif., San Francisco—Apartment—C. O. Clausen, archt., Hearst Bldg., prepared plans three 3 story and basement, timber construction, Mission, Marina and North Beach Dists. $165,000. Owner's name withheld.

Calif., Santa Monica—City Hall, Store and Office—City had sketches made by Russell & Alpaugh, Story Bldg., Los Angeles, 4 story, rein.-con. $600,000 bond issue considered. Noted May 22.

Calif., Sunnyside — High School — Westside Union School Dist. plans election $150,000 bonds erecting group of hign school buildings. Former election defeated. Noted Apr. 10.

Mexico, Calexico—Hotel and Stores—S. Silverberg, c/o Russell & Alpaugh, Story Bldg., Los Angeles, Calif., having plans prepared 4 to 6 story, 100 x 140 ft., rein.-con. $225,000 or more.

Que., Sherbrooke—Hospital—Takes bids last of August, addition to Sherbrooke Hospital. $400,000. J. W. Gregoire, Sherbrooke, archt.

N. B., Fredericktown—High School—Bd. School Trustees soon take bids 3 story, 124 x 152 ft., concrete and stone. $150,000. F. N. Brodie, St. John, archt.

N. B., St. John — School — Bd. School Trustees soon takes bids new concrete, brick and stone vocational school. $350,000. F. N. Brodie, St. John, archt.

Ont., Kingston — Medical — Queens University plans rebuilding medical building recently destroyed by fire. $200,000. Engineer and architect not selected.

BIDS DESIRED

Vt., Burlington — High School — City, taking bids 2 and 3 story and basement, 60 x 100 ft. and 90 x 130 ft., brick and stone. $350,000. A. Kellogg, 89 Franklin St., Boston, Mass., engr. F. L. Austin, 240 College St., Boston, Mass., archt. Noted June 19.

Mass., East Boston (Boston P. O.)—Sept. 5, by School House Dept., City Hall, Boston, 2 story and basement, 194 x 207 ft., rein.-con., brick, granite and limestone, in Samuel Adams Dist., Cottage and Grove Sts., here. $500,000. W. W. Drummey, 80 Boylston St., Boston, archt.

Mass., Edgartown — School — Sept. 4, by H. T. Ripley, town chn., 2 story, brick, West Tisbury St. $150,000. A. Kellogg, 89 Franklin St., Boston, engr. Brainerd-Leeds, 89 Franklin St., Boston, archts.

R. I., Providence—Hospital—Providence Lying-In Hospital, State St., taking bids, 5 story and basement, 42 x 400 ft., brick and stone, Pleasant Valley Parkway. $600,000-$800,000. French & Hubbard, 210 South St., Boston, Mass., engrs. Stevens & Lee, 9 Park St., Boston, Mass., archt. Noted Aug. 21.

R. I., Providence — School — Church of the Assumption, Fenner St., taking bids 2 story and basement, 75 x 100 ft., rein.-con. and brick, Linwood Ave. and Cranston St. $150,000. O'Malley & Fitzsimmons, Tanning Bldg., archts.

Conn., Groton — Imfirmary — Oct. 1, by Whiton & McMahon, archts., 803 Main St., Hartford, 3 story and basement, 37 x 150 ft., brick and steel, for Odd Fellows Home Corp. of Conn. $250,000. Noted Dec. 13.

N. Y., Schenectady—School—Sept. 15, by Bd. Contr. & Supply, 2 story, 130 x 250 ft., brick and steel, plain foundation, Bway. $140,000. R. L. Bowen, city archt.

N. J., Camden—Hospital—Sept. 4, by Bd. Freeholders Camden Co., Court House, 2 story and basement, 50 x 200 ft., steel, plain foundation, Pensauken Twp. $150,000. Lackey & Hettle, 5 Hudson Ave., archts.

Pa., Ardmore — Office — Sept. 10, by Comrs. Lower Merion Twp., 75 East Lancaster Ave., 3 story and basement, 60 x 100 ft., stone, plain foundation, 75 East Lancaster Ave. $150,000. Zantzinger, Borie & Medary, Otis Bldg., Phila., archts.

Pa., Danville—Nurses Home—Memorial Hospital, taking bids, 4 story and basement, 38 x 156 ft., nurses home. $300,000. A. Kellogg, 89 Franklin St., Boston, Mass., engr. Stevens & Lee, 9 Park St., Boston, Mass., archts.

Pa., Phila. — Schools — Sept. 4, by Bd. Educ., 19th and Chestnut Sts., 3 story and basement, 104 x 212 ft., 12th and Federal Sts., $500,000; 34 x 79 ft., and 34 x 113 ft. wings and basement addition to Lawton School, Lawndale and Hellerman Sts., both brick, rein.-con., plain foundation. Private plans.

Pa., Pittsburgh—Apartment—Sept. 1, by E. A. Roth, archt., Drexel Bldg., 3 story and basement, 50 x 145 ft., brick, plain foundation, 6236-38 North Broad St., for D. Simpson, c/o architect.

Md., Baltimore — Home — The Augsburg Home for Orphans & Aged, 746 West Lexington St., taking bids 2½ and 3 story, with three 113 ft. wings, Campfield Rd. and Liberty Heights Ave., $300,000.

Md., Salisbury — School — Sept. 4, by Smith & May, Calvert Bldg., Baltimore, 3 story and basement, brick, steel, concrete foundation, $250,000. H. Massart, 328 North Charles St., Baltimore, engr.

O., Youngstown — Church — Sept. 5, by First Baptist Church, c/o A. C. Archibald, Wick Bldg., 5 story 70 x 150 ft., brick and steel. $150,000. Stanley & Scheibel, Wick Bldg., archts.

Ind., Bloomington—Bank—Citizens Loan & Trust Co., taking bids 3 story and basement, 52 x 132 ft., rein.-con., brick and steel. $150,000. McGuire & Shook, Pythian Bldg., Indianapolis, archts. Noted July 31.

Ind., Connersville—School—Catholic Congregation, taking bids 2 story and basement, 75 x 147 ft., rein.-con., brick and steel. $150,000. K. P. Henkel, Connersville, archt. Noted July 31.

Ind., Ft. Wayne—Office—Genl. Electric Co., 1703 Bway., taking bids 5 story and basement, rein.-con., brick and steel. $500,000. Private plans.

Ind., Richmond — School — Bd. School Trustees, taking bids 2 story and basement, rein.-con., brick and steel. $150,000. Perkins, Fellows & Hamilton, 814 Tower Court, Chicago, Ill., archts. Noted July 31.

Ind., Wabash — Bank — Wabash Natl. Bank taking bids 3 story and basement, rein.-con., brick and steel. $150,000. McGuire & Shook, Pythian Bldg., Indianapolis, archts. Noted July 31.

Ill., St. Charles — School — G. L. Lockhardt, Inc., archt., 306 South Wabash Ave., taking bids 2 story and basement, rein.-con., brick and steel, plain foundation, for Community High School Dist. 150. $200,000. C. S. McCormick, pres. Noted Aug. 7.

Wis., Madison—High School—Sept. 6, by Bd. Educ., W. H. Pickford, clk., 22 West Dayton St., 2 story, 89 x 148 ft., brick, rein.-con. and steel addition, plain foundation, Washington St. $320,000. F. Riley, Conklin Bldg., archt.

Wis., Milwaukee — Store — Sept. 6, by Holabird & Roche, archts., 104 South Michigan Ave., Chicago, Ill., 4 story, 200 x 420 ft., steel, rein.-con. and terra cotta, addition, Grand Ave., for Plankinton Arcade Co., 216 Plankinton Arcade. $1,500,000.

Ia., Cedar Rapids—Store and Office—Sept. 3, by Killian Co., A. L. Killian, pres, 210 3rd Ave., 12 story and basement, 80 x 120 ft., rein.-con., brick and tile, 3rd Ave. and 2nd St. E. $700,000. B. Rugh, Klinger Bldg., archt. Noted Jan. 10.

Ia., Ft. Dodge — Hospital — Sept. 4, by Lutheran Hospital Assn. c/o F. W. Griffith, archt., 400 Snell Bldg., 4 story and basement, 40 x 200 ft., rein.-con., brick and stone. $250,000. Noted Dec. 13.

Neb., Omaha—Office—Sept. 3 (extended date), by H. Doorly, World Herald Bldg., 1500 Farnam St., 4 or 8 story and basement, 66 x 132 ft., brick, stone and steel addition, 1508-12 Farnam St., for World Publishing Co. $250,000. T. R. Kimball, 836 World Herald Bldg., archt. Noted May 29.

Neb., Omaha — Hospital — L. A. Daly, archt., 622 Peters Trust Bldg., taking bids 4 story and basement, 43 x 187 ft., 811 Forest Ave., for St. Catherines Hospital, c/o Sister Mary John, 811 Forest Ave. $200,000. Towl, Nelson & Schwartz, 524 Peters Trust Bldg., engrs. Noted June 5.

Calif., San Francisco—Home—Sept. 17 (extended date), by Bd. Pub. Wks., group of fireproof buildings for relief home, for City and San Francisco Co. To exceed $1,500,000. J. Reid, Jr., 1st Natl. Bank Bldg., archt. Noted Aug. 21.

Calif., San Bernardino—Theatre, Store and Office—H. E. Jones, archt., 445 4th St., taking bids 3 story and basement, 100 x 175 ft., Class "A", steel fra[illegible] 5th and E Sts., for Platt Investment Co[illegible] archtect. Noted Aug. 7.

Calif., San Diego—High Sch[illegible] Sept. 2, by Bd. Educ. Woodrow Wilson Junior High School, 2 story and basement, hollow tile. $250,000 or more. Kistner & C[illegible] Pantages Bldg., Los Angeles, archt.

BIDS RECEIVED

Mass., Boston — School — School House Dept., 2 story and basement, 150 x 245 ft., rein.-con. and brick, from Atlas Constr. Co., 43 Tremont St., Boston, $469,500.

N. Y., New York—Courthouse—Bd. Estimate & Apportionment in Council Chamber, City Hall, Aug. 14, courthouse, Center, Worth, Baxter and Pearl Sts., interior finish work, from J. T. Brady Co., 103 Park Ave., $3,600,000, drawn steel work from G. A. Fuller Co., 949 Bway., $308,560; plumbing, from Riggs Distler Co., 342 Madison Ave., $177,771; heating, from Baker Smith Co., 576 Greenwich St., $624,000; electric work, from W. H. Taverner, 175 5th Ave., $118,000. Noted July 24.

Calif., Los Angeles — Library — Library Directors, Aug. 15, 4 story and tower, 200 x 325 ft., rein.-con., plain foundation, 5th St., from Clinton Constr. Co., Stock Exchange Bldg., Spring St., $1,350,000. Noted July 24.

CONTRACTS AWARDED

Vt., Brattleboro—School—Town, 2 story, 110 x 125 ft., brick and stone, plain foundation, Linden St., to H. Wales Lines Co., 134 State St., Meriden, Conn. Archts. est. $150,000. Noted Aug. 21.

Mass., Allston (Boston P. O.)—Apartment—P. Silverstein, 72 Hutchings St., Roxbury, will build 3 story and basement, 50 x 90 ft., apartment, Brainard Rd. and Wolbridge St., here, by day labor. $190,000. Silverman, Brown & Heenan, 51 Cornhill St., Boston, archts.

Mass., Boston — Apartment — Marden & Orlando, 22 Mayflower St., Roxbury, will build 8 story and basement, 28 x 125 ft., brick and steel, Hereford St. and Commonwealth Ave., by day labor. $180,000. Funk & Wilcox, 26 Pemburton Sq., archts. Noted Aug. 14.

Mass., Boston—Apartments—S. Rosenburg, 111 Ellington St., Dorchester, will build 4 story and basement, 52 x 80 ft., Riverway and Pilgrim Rd., Back Bay Dist., here, by day labor. $150,000. S. E. Moffie, 51 Cornhill St., archt. Noted Aug. 21.

Mass., Boston—Mercantile—H. C. Davis, 68 Devonshire St., 6 story and basement, 88 x 95 ft., brick, 287-293 Columbus Ave., to Aberthaw Co., 27 School St. Archts. est. $160,000. Noted July 31.

Mass., Brockton—School—School Bd., 2 story, 170 x 240 ft., brick and stone, Oakdale St. and Oakdale Ave., to C. A. Batson, 26 Arlington St., $198,000. Noted Aug. 14.

Mass., Weston — Recitation — Society of Jusus, c/o P. J. O'Goram, Boston College, Boston, 4 story and bemasement, 200 x 400 ft., rein.-con., brick and stone, to J. P. Keating, 80 Boylston St., Boston. Archts. est. $1,000,000.

R. I., East Providence (Providence P. O.)—Temple—Rising Sun Lodge of Masons, 3 story and basement, 50 x 103 ft., brick, sandstone, and marble, Taunton Ave., to A. W. Merchant, Inc., 728 Hospital Trust Bldg., Providence. Archts. est. $150,000.

R. I., Woonsocket—Office—J. E. Grenom Co., 85 Front St., 4 story and basement, rein.-con., brick and steel, to Bouvier-Brein Constr. Co. Archts. est. $175,000.

Conn., Bristol — School — South Side School Dist., school, to Torrington Building Co., Torrington, $184,650. Noted Jan. 3.

N. Y., Astoria—School—Bd. Educ., 500 Park Ave., New York, constructing P. S. 122, Ditmars Ave., to DeRiso Bros., 415 Hackensack Plank Rd., West Hoboken, N. J., $868,974. Noted Aug. 21.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York, constructing P. S. 145, Central Ave. to Lustbader Constr. Co., 423 Madison Ave., New York, $372,900. Noted Aug. 21.

N. Y., New York — School — Bd. Educ., 500 Park Ave., P. S. 136 Edgecombe Ave., to DeRiso Bros., 415 Hackensack Plank Rd., West Hoboken, N. J., $863,344. Noted Aug. 21.

Pa., Bridgeville—School—Bd. of Educ., general contract, 3 story and basement, 148 x 148 ft., to J. G. Fullman Co., E. E. Trust Bldg., Pittsburgh. Archts. est. $150,000.

Pa., Phila. — Bank and Office — Liberty Title & Trust Co., Broad and Arch Sts., 21 story, basement and sub-basement, 60 x

Buildings—Commercial (Continued)

97 ft., brick and steel, plain foundation, Arch and Broad Sts., to Irwin & Leighton, 126 North 12th St. Noted Aug. 7.

Pa., Pittsburgh—Store—J. M. Roberts & Son Co., 435 Market St., general contract, 5 story and basement, 37 x 80 ft., 429-31 Wood St., to D. T. Rice, 1006 Forbes St. Archts. est. $250,000.

Pa., Westmont (Johnstown, P. O.) — School—Bd. Educ., general contract, 2 story and basement, school, to Carstenson & McClain, Swank Bldg., Johnston. Archts. est. $150,000. Noted July 17.

D. C., Wash.—Store—Hecht Co., 7th and F Sts., wrecking old buildings and erecting temporary arcade, to G. A. Fuller Constr. Co., Munsey Bldg. This corrects report in Aug. 14 issue.

La., Jeanerette — School — New Iberia Parish School Bd., New Iberia, general contract 3 story, rein.-con. and brick, here, to Burkle & Haley, Baton Rouge, $100,500.

O., Canton—Hospital—City, 4 story and basement annex to Aultman Hospital, Clarendon and 7th Sts., S. W., to Melbourne Constr. Co., 160 Clark Bldg., $280,000. Noted July 31.

O., Columbus — Office — Amer. Insurance Union, 44 West Broad St., 17 story, basement and tower, 187½ x 187½ ft., rein.-con. and brick, West Broad St., to J. Gill & Sons, Citizens Bldg., Cleveland, about $3,000,000. Noted May 15.

O., Lakewood—Apartment—Urban Realty & Development Co., c/o M. Levine, 817 Guardian Bldg., Cleveland, 3 story and basement, brick and timber, Cook and Lake Aves., to M. Lessowitz, 203 Ulmer Bldg., Cleveland. Archts. est. $250,000. Noted Aug. 7.

O., Warren — Temple — Pythian Temple Co., 2 story and basement, Park Ave., to A. W. Lehman, Warren, about $150,000. Noted July 3.

Mich., Detroit—Bd. Educ., 1354 Bway. Ave., 1 story and part basement, 263 x 368 ft., rein.-con., brick and steel, plain foundation, Lawley Ave., to F. H. Goddard Co., 2130 Franklin St., $664,907; 3 story and part basement, 202 x 337 ft., rein.-con. brick and steel, plain foundation, Fairview Ave., to F. N. Cooper, 6370 Gratiot Ave., $716,313. Noted Aug. 21.

Mich., Detroit — School — St. Andrews Parish, 5531 Tarnow St., 2 story and basement, 80 x 157 ft., rein.-con., brick and steel, plain foundation, McGraw Ave., to Culbertson & Kelly, 872 West Milwaukee Ave. Archts. est. $160,000.

Ill., Chicago — Apartments — A. W. Swayne, Wrigley Bldg., general contract, 3 story and basement, 1524-34 East 59th St., and 3 story and basement, 1520-22 East 59th St., both rein.-con. and brick, plain foundations, to Turnquist Constr. Co., 217 East 69th Pl. Archts. est. $250,000 and $150,000 respectively. Noted July 24.

Ill., Chicago—Apartment—P. W. Ryan, 6437 Ingleside Ave., 3 story and basement, 121 x 137 ft., rein.-con. and brick, 72nd St. and Constance Ave., general contract, to Turuquist Constr. Co., 217 East 69th Pl. Archts. est. $150,000. Noted Aug. 14.

Ill., Chicago — Office — H. Bernsten, 25 South Market St., constructing 8 story and basement, 25 x 90 ft., and remodeling 10 story and basement, 30 x 90 ft., rein.-con. and brick, plain foundation, Market St., to E. P. Strandburg Co., 232 East Erie St. To exceed $150,000.

Ill., Chicago — School — Bd. Educ., 650 South Clark St., 3 story and basement, rein.-con., brick and steel, plain foundation, Schubert and Fairfield Aves., to Hanson Bros. Co., 127 North Dearborn St. Archts. est. $375,000.

Ill., Decatur — Hospital — Wabash R.R. Co., Railway Exch. Bldg., St. Louis, Mo., general contract, 2 story and basement, 40 x 140 ft., rein.-con., brick and stone, to H. J. McDonald, Decatur. Noted July 10.

Ill., Des Plaines — Theatre, Store and Apartment—B. H. Winkelman, general contract, 2 story and basement, 100 x 140 ft., rein.-con., brick and stone, Lee and Miner Sts., to E. Meisser, Des Plaines.

Ill., Joliet—Sanitorium—Comrs. Will Co., 2 story and basement, rein.-con., brick and stone, Richards Rd., to Thompson & Peterson, Joliet. Noted Aug. 7.

Wis., Fond du Lac—Hospital—St. Agnes Hospital, 390 East Division St., 7 story and basement, 44 x 224 ft., rein.-con. and brick addition, plain foundation, to Hutter Constr. Co. Archts. est. $500,000.

Wis., Milwaukee — Church — Immanuel Lutheran Congregation, C. Dietz, pastor, 1122 Garfield Ave., 2 story, 54 x 130 ft., brick and stone plain foundation, Teutonia Ave., to F. Timm, 1279 10th St. Archts. est. $150,000. Noted June 26.

Wis., Milwaukee—Store and Apartment—A. S. Memmel, 2326 Vliet St., 3 story and basement, 60 x 106 ft., brick and tile, plain foundation, Vliet St., to G. M. and A. J. Memmel, 1027 25th St. Archts. est. $150,000.

Wis., Racine — Memorial Auditorium — Memorial Hall Comn., W. Horlick, Jr., pres. 1 and 2 story, 180 x 200 ft., brick and concrete, to Bondgard & Christensen, 1135 Mound Ave., $131,947. Noted July 24.

Ia., Sioux City — Hospital — Methodist Hospital Bd., c/o G. T. Nostine, supt., general contract (1st unit), 4 story and basement, 118 x 134 ft., brick and stone, to B. E. Short, 420 Court St., $192,944; heating, plumbing and ventilating, to Orr & Graves, $56,888. Noted Apr. 24.

Ia., Waterloo — Church — Linden Methodist Congregation, 2 story and basement, 100 x 125 ft., rein.-con., brick and stone, to J. Olsen & Son, Waterloo. Archts. est. $225,000.

Minn., Hibbing — Recreation — Village, general contract, 3 story and basement, 226 x 261 ft., rein.-con. and brick, to F. Gorham, Virginia, $223,732. Noted July 31.

Minn., St. Paul—Hotel—Hotel Sherman, A. Campbell, proprietor, 4th and Sibley Sts., will build 8 story and basement, 96 x 96 x 124 ft., rein.-con., brick, tile and stone, 4th St. between Sibley and Waconta Sts., by day labor. $750,000.

Kan., Great Bend—Hotel—Great Bend Hotel Co., general contract, 4 story and basement, 85 x 100 ft., brick and stone, to T. C. Cork, Great Bend, $60,528. Noted Aug. 7.

Okla., Claremore—Bath House—Claremore Bath & Sanitarium Co., c/o G. D. Davis, pres., general contract, 3 story and basement, 120 x 140 ft., rein.-con. and brick, to R. D. Pollard, Claremore. Archts. est. $200,000.

Nev., Reno—Hotel—Riverside Hotel Co., c/o contractors, hotel, to Lindgren-Swinerton, Inc., Standard Oil Bldg., San Francisco, Calif., $350,000 plus basis. Noted June 21.

Calif., Pasadena—Mausoleum—Pasadena Mausoleum Co., c/o Starret & Payne, archts., Western Mutual Life Bldg., Los Angeles, will build (1st unit) 1 story, 57 x 208 ft. with two wings 40 ft. wide, rein.-con. and stone, North Raymond Ave., by day labor. $150,000. Noted Aug. 7.

Calif., San Francisco—Warehouse—Dohrmann Commercial Co., Butler Bldg., 4 story and basement, rein.-con., Townsend and 5th Sts., to J. B. Sampson, Monadnock Bldg., $156,000. Noted Aug. 14.

Que., St. Claire de Tetraultville—Church—Parish of Ste. Claire de Tetraultville, constructing church, to T. Gauthier, Montreal, $150,000.

Federal Government Work

PROPOSED WORK

New York—Dredging—Federal Government, Albany, having surveys made dredging 27 ft. channel in Hudson River from Hudson to Albany.

Calif., Mare Island — Hospital — Bureau Yards & Docks, Navy Dept., Wash., D. C., soon takes bids constructing psychopathic ward at hospital, here.

Calif., San Francisco—Sprinkler System—Spec. 5000—Bureau Yards & Docks, Navy Dept., Wash., D. C., rescinded contract for sprinkler system awarded to Grinnell Co., 610 Brannon St. Noted Aug. 7.

Dry Dock—St. Johns, Nfld.—Provincial Government, soon takes bids rebuilding dry dock, here. $2,600,000.

BIDS DESIRED

Mass., Boston — Wharf — Sept. 11, by Treas. Dept. at office Supervising Architect, Wash., D. C., wharf, here.

Mass., Weymouth—Dredging—Sept. 16, by U. S. Engineer Office, Custom House, Boston, dredging in Fore River, here.

N. Y., Troy—Widening Channel—Oct. 1, by U. S. Engineers Office, Albany, widening channel in Hudson River, 400 ft. wide, 12 ft. deep, here.

D. C., Wash.—Turbines, etc.—Sept. 29, by Dept. Interior, Bureau Reclamation, Denver, Colo., furnishing two 6,000 hp. hydraulic turbines, two 5,000 kva. generators, etc., for Black Canyon power house, Boise Project, Idaho.

W. Va., Wheeling—Remodeling—Sept. 9, by Treas. Dept. at office Supervising Architect, Wash., D. C., remodeling post office screen, etc., in U. S. Post Office, here; adv. E. N.-R. Aug. 28.

Ky., Louisville—Metal Work—Sept. 25, by U. S. Engineer Office, P. O. Box 72, metal work for Chanoine Weir, Dam 45, Ohio River; adv. E. N.-R. Aug. 28.

O., Marietta—Court House—Sept. 15, by Treas. Dept. at office Supervising Architect, Wash., D. C., constructing Washington Co. Court House, here.

Ill., Greenville — Boiler — Sept. 3, by Treas. Dept. at office Supervising Architect, Wash., D. C., new horizontal smokeless fire-box heating boiler in Post Office, here.

Ia., Knoxville—Septic Tank, etc.—Sept. 16, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., septic tank, sludge bed, etc., to improve water and sewerage systems, at U. S. Veterans Hospital 57, here.

Wash., Vashon Island — Towers — Spec. 5008—Sept. 24, by Bureau Yards & Docks, Navy Dept., Wash., D. C., 4 steel towers on concrete foundations, at Naval Trial Course, here. Noted Aug. 7.

California — Road — Sept. 4, by C. H. Sweetser, dist. engr., 9 Main St., San Francisco, constructing 6.76 mi. Salmon River Natl. Forest Rd., Siskiyou Co., 154,972 cu.yd. excav., etc.

Calif., San Diego—Building—Spec. 5009—Sept. 24, by Bureau Yards & Docks, Navy Dept., Wash., D. C., extension building at U. S. Naval Base, here.

BIDS RECEIVED

N. Y., Brooklyn—Bridge—Spec. 4998—Bureau Yards & Docks, Navy Dept., Wash., D. C., bridge between buildings A and E, at Naval Hospital, here, from Heathy & Little, Inc., 324 West 42nd St., New York, $5,586.

N. Y., New York—Underground Passage—New York, N. Y.—Treas. Dept. at office Supervising Archt., Wash., D. C., underground passage at U. S. Assay Office, here, from Edwards & Flood, 26 Court St., Brooklyn, $21,990. Noted July 31.

Wharf — New Orleans, La. — Bd. Port Comrs., New Court House, Aug. 14, removing old Louisville & Nashville R.R. wharf, and constructing concrete footing, walls and piling for Julia St. Wharf, from J. Reiss, New Orleans, $51,295; furnishing steel, (a) Bethlehem Sect., (b) Standard Sect., from Lukens Steel Co., 626 South Peters St., (a) $26,518, from Virginia Bridge & Iron Co., Whitney Bldg., (b) $28,336.

Tex., Galveston — Post Office — Treas. Dept. at office Supervising Archt., Wash., D. C., post office addition, from Farwell Co., 1963 North Haskell Ave., Dallas, $1,378, (30 days).

Colorado — Road — Bureau Pub. Rds., Custom House Bldg., Denver, grading 3.98 mi. Tennessee Pass Natl. Forest Rd., Eagle Co., from Wells Constr. Co., Boise, Idaho, $62,748.

Calif., Tiburon—Fender System—Spec. 5002—Bureau Yards & Docks, Navy Dept., Wash., D. C., renewal of fender system at Naval Coal Depot, here, from M. B. McGowen, 180 Jessie St., San Francisco, (1) $28,987, (2) $2.87, (3) $4.85. Noted July 17.

Calif., Tiburon—Steel Coal Trestle—Spec. 4989—Bureau Yards & Docks, Navy Dept., Wash., D. C., steel coal trestle at Naval Coal Depot, here, from Minneapolis Steel & Mchy. Co., 1029 Chapman Bldg., Los Angeles, (1) $17,573, (2) $1,373. Noted July 17.

CONTRACTS AWARDED

Pa., Phila.—Water Mains—Spec. 4919—Bureau Yards & Docks, Navy Dept., Wash., D. C., storm water mains, here, to McCormick, Lenham Co., 2403 South Broad St., $22,745.

Pa.—Pittsburgh—U. S. Engineer Office, one pair steamboat engines, to T. M. Reed, Pittsburgh, $13,650. Noted July 24.

D. C., Wash.—Quarters—U. S. Veterans Hospital Bureau, Room 791, Arlington Bldg., nurses' quarters and storehouse, at U. S. Veterans Hospital 32, Mt. Alton, to Skinker & Garrett, 1416 F St., $148,058.

Va., Norfolk Harbor—Riprap—U. S. Engineer, Norfolk, 8,150 tons riprap on Craney Island Bulkhead, to Ganaway-Huggins, Hampton, $35,860. Noted July 17.

Ala., Florence—Steel Angles, etc.—P. T. Samuels, chn. supply division, angles, I beams, plates and bars, to Jones & Laughlin Co., 1205 Union Trust Bldg., Cincinnati, O., $2,776; 33 tons mild steel, etc., to Gulf States Steel Co., B-M Bldg., Birmingham, $3,028; mild steel, to Youngstown Sheet & Tube Co., Youngstown, O., $180.

Federal Government Work (Continued)

Miss., Vicksburg—Levees—Third Mississippi River Dist., P. O. Box 404, constructing Hollybrook Levee enlargement, to G. H. and W. T. Lawrence, Memphis, Tenn., $112,500, Eagle Pass Levee, to Rodgers, Denison & Brown, Memphis, Tenn., $216,550, Refuge Levee, to Elkas & Weathers, Greenville, Miss., $38,130, Lower and Chicora Levees to Roach & Stansell, Inc., Savings Bank Bldg., Memphis, Tenn., $44,145 and $196,200 respectively; Henderson Levee, to W. Ownes & Co., Jackson, Miss., $129,600, Ashton Levee, to J. W. Noble, Fayette, $45,525, Wilson Point Levee enlargement, to R. S. Wilds & Son, Vicksburg, $27,500. Noted July 17.

Tenn., Franklin — Post Office — Treas. Dept. at office Supervising Architect, Wash., D. C., constructing post office, here, to A. Blair, Laurence St., Montgomery, Ala., $43,300. Noted Aug. 21.

Ky., Owensboro—Wood Piles—U. S. Engineer Office, P. O. Box 72, Louisville, furnishing 900 round piles 30 ft. long, to L. W. Johnson, Calhoun, $3.85 each, 200 round piles 25 ft. long, to J. M. Craycroft, Owensboro, $3.50 each, and 100 round piles 20 ft. long, to Withers Bros., West Point, $2.60 each. Noted July 24.

O., Cincinnati—Water Tanks—U. S. Engineer Office, 405 Custom House, steel water tanks at Dams 34, 36 and 38, to Chicago Bridge & Iron Co., 608 South Dearborn St., Chicago, Ill., $8,490. Noted Aug. 7.

Mo., Labaddie—Current Retards—U. S. Engineer Office, War Dept., Western Union Bldg., Kansas City, 250 lin.ft. current retards in Missouri River, near here, to Woods Bros., Constr. Co., Lincoln, Neb., $13,500.

Mo., St. Louis—Earthwork—Mississippi River Comn., 1311 International Life Bldg., earthwork in Louisa Co. Levee Dist., to LaCrosse Dredging Co., 405 Plymouth Bldg., Minneapolis, Minn., $29,000, in Iowa River-Flint Creek Levee Dist., to McWilliams Dredging Co., McCormick Bldg., Chicago, Ill., $63,980. Noted Aug. 21.

FEDERAL POWER COMMISSION

Applications for Licenses and Permits

Applications

513—Rozenstain, Yael, Smith & Malcolm, Hyder, Alaska—Wants preliminary permit for small power project on Bonanza and Canyon Creeks, here.

514—S. E. Kieffer, 57 Post St., San Francisco, Calif.—Wants preliminary permit for high dam in Cosumnes River, Amador and El Dorado Counties, forming reservoir 400,000 acre ft. capacity, also power house at foot of dam.

515—Cascade Electric Co., Portland, Ore.—Wants preliminary permit for 4 storage reservoirs, 6 power house with necessary diversion dams, conduits, tunnels, etc., in tributaries of Sandy River.

516—Lexington Water Power Co., Lexington, S. C.—Wants license for power project in Saluda River, ¼ mi. below Bear Creek, near here.

517—East Butte Copper Mining Co., Butte, Mont.—Wants license for 4.84 mi. transmission line in Helena Natl. Forest, Jefferson Co., connecting to Boulder-Radersburg line of Montana Power Co.

518—Colorado Power Co., Symes Bldg., Denver, Colo.—Wants license, Moffat Tunnel transmission line, 22 mi. long, in Colorado Natl. Forest, Boulder and Gilpin Counties.

519—Colorado Power Co., Symes Bldg., Denver, Colo.—Wants license for about 7 mi. transmission line in Gilpin and Summit Counties in Colorado and Arapahoe Natl. Forests.

520—Colorado Power Co., Symes Bldg., Denver, Colo.—Wants license for Caribou transmission line in Colorado Natl. Forest, Boulder Co.

521—Colorado Power Co., Symes Bldg., Denver, Colo.—Wants license for Tippecanoe transmission line in Colorado Natl. Forest, Boulder Co.

522—Southern California Edison Co., 306 West 3rd St., Los Angeles, Calif.—Wants license for transmission line in Kern Co.

523—Southern California Edison Co., 306 West 3rd St., Los Angeles, Calif.—Wants license for transmission line in Angeles Natl. Forest, San Bernardino, Co.

Unclassified

PROPOSED WORK

Pavilion — New Bedford, Mass. — St. Lukes Hospital Corp., having plans prepared by Stevens & Lee, 9 Park St., Boston, 2 story and basement, 45 x 180 ft., brick and stone, hospital grounds. $160,000.

Stadium—Pittsburgh, Pa.—University of Pittsburgh, making plans steel and rein.-con. stadium, 40,000 seating capacity. W. S. Hindman, engr. in charge. Stone & Webster, Inc., 147 Milk St., Boston, Mass., superv. engrs.

Elimination of Grade Crossings—Jackson, Tenn.—Illinois Central R.R. Co., 135 East 11th Pl., Chicago, Ill., and other lines, plan elevating tracks in northern city limits, eliminating some grade crossings, here. F. L. Thompson, ch. engr.

Harbor Facilities and Industrial Tract—Alameda, Calif.—Making preliminary plans harbor facilities and industrial tract between Bay Farm Island and Alameda, 4 mi. rip-rap wall, 100 ft. roadway on wall, dredging channel 500 ft. wide, 30 ft. deep along wall, material dredged, used to fill in low lands for industrial sites. $3,125,000. C. E. Hickok, city mgr.

Skating Rink and Swimming Pool—Beverly Hills, Calif.—Globe Ice Cream Co., 230 West Jefferson St., Los Angeles, plans ice skating rink and swimming pool. $150,000 or more.

Harbor Improvements—Coronado, Calif.—Plans election $75,000 bonds for harbor improvements. Total cost $150,000.

Playground — El Cerrito, Calif. — See "Buildings—Commercial."

Fire Alarm System — Glendale, Calif. — Plans election $63,429 bonds fire alarm system. V. B. Stone, city mgr. Noted July 10.

Park Improvements—Glendale, Calif.—Plans park improvements. Approximately $155,500.

Police Alarm System—Glendale, Calif.—Plans election $36,300 bonds police alarm system. V. B. Stone, city mgr.

Street Lighting — Hemet, Calif. — Plans installing street lighting system in business district. $25,000 or more.

Park and Auto Camp—Lodi, Calif.—City plans to purchase land and improve approximately 20 acres for public park and auto camp. L. F. Barzelotti, city engr.

Golf Course and Swimming Pool—Los Gatos, Calif.—See "Buildings—Commercial."

Ornamental Street Lighting System — Pasadena, Calif.—See "Streets and Roads."

Street Signs—San Francisco, Calif.—City and San Francisco Co., having plans prepared for street signs. To exceed $5,000. M. M. O'Shaughnessy, city engr.

Subway—Woodland, Calif.—State Highway Comn., Sacramento, making plans subway in vicinity of Washington St. under tracks of Sacramento Northern R.R. $26,000. R. M. Morton, highway engr.

Telephone Extensions — Levis, Que. — Natl. Telephone Co., Ltd., voted $250,000 for extensions incl. new long distance line.

Gas Retorts — London, Ont. — City Gas Co. plans new gas retorts, steel. $40,000.

BIDS DESIRED

Heating and Ventilating System — New York, N. Y.—Sept. 2, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, heating and ventilating system, in P.S. 47, East 23rd St., and P.S. 73, Anderson Ave., here; for Bd. Educ., 500 Park Ave.

Pavilion—Elizabeth, N. J.—Sept. 3, by Union Co. Park Comrs., 286 North Broad St., pavilion in park tract in Echo Lake, Westfield-Mountainside. Hollingsworth & Bragdon, 17 West 45th St., New York City., archts.; adv. E. N.-R. Aug. 28.

Wall—Trenton, N. J.—Aug. 29, by City Comn., concrete retaining wall along John Fitch Way, from present wall to Factory St., at Delaware River, $115,000. A. C. Gregory, city engr. Noted July 31.

Gas Services—Beloit, Wis.—See "Sewers."

Truck Street Sprinkler—Racine, Wis.—Aug. 30, by Bd. Pub. Wks., J. Beaugrand, engr., one 1 ton truck street sprinkler equipped with 500 gal. tank.

Heating System—Owatonna, Minn.—Sept. 16, by Utilities Comn., complete underground heating system in business district. A. L. Mullergren, 555 Gates Bldg., Kansas City, Mo., consult. engrs.

Retaining Wall and Boat Landing, etc.—Forest Park (Pierce City, P. O.), **Mo.**—Sept. 16, by Bd. Pub. Serv., Room 208, City Hall, St. Louis, concrete retaing walls and boat landing, railing, etc., for Grand Basin, Lagoon, here, $30,000. E. R. Kinsey, 208 City Hall, St. Louis, engr.

Fire Hydrants—San Francisco, Calif.—Sept. 2, by L. S. Leavy, city purch. agt., fire hydrants for City and San Francisco Co. To exceed $5,000.

Tunnel—Santa Cruz, Calif.—Sept. 8, by Supervs. Santa Cruz Co., Valencia Creek Channel Change, 775 cu.yd. excav., 60 lin. ft. tunnel unlined and 20 lin.ft. concrete unlined tunnel, 501 cu.yd. concrete, 32,800 lb. reinforcing for culverts, wingwalls, etc. L. Bowman, co. surv. Noted July 24.

CONTRACTS AWARDED

Amphitheatre—Providence, R. I.—Brown University, Prospect St., 150 x 455 ft. rein.-con. amphitheatre, to Turner Constr. Co., 178 Tremont St., Boston, Mass. Archts. est. $500,000.

Tunnel, etc. — Phila., Pa. — Comrs. Fairmount Park, 215 City Hall, constructing 10 x 10 x 380 ft. rein.-con. tunnel, to O'Neil Constr. Co., 127 East Mermaid Lane, $61,900; plumbing, to W. W. Muench, 135 West 22nd St., $46,000; heating and ventilating, to W. Anderson, 600 Schuylkill Ave., $174,910. Noted July 28.

Heating and Ventilating—Sioux City, Ia.—See "Buildings—Comemrcial."

Lighting Standards—Hawthorne, Calif.—See "Streets and Roads."

Street Lighting System — Los Angeles, Calif.—Bd. Pub. Wks., street lighting system on Vermont Ave. between Hollywood Blvd. and Middlebury St., to A. C. Rice, 1963 Santee St., $66,283; 1st St. between Soto St. and Boyle Ave., to Newbery Electric Corp., 726 South Olive St., $30,926; Atwater St. between Silver Lake and Glendale Blvds., to Walker & Martin, 402 West Wilshire Blvd., Fullerton, $11,142; Cahuenga Ave. between Highland St. and Hollywood Ave. Blvd., to Reid & Co., 115 Mission St., San Francisco, $41,885. Noted Aug. 14.

Street Lighting System — Los Angeles, Calif.—Ornamental street lighting system on Alvarado St. between 6th and Hoover Sts., to W. A. McNally, 517 South Bway., Pasadena, $47,362. Noted June 19.

Material and Equipment

PROPOSED WORK

Concrete Mixer—Oklahoma City, Okla.—Campbell & Price, 605 West Main St., plans to purchase ½ to ¾ yd. motor driven concrete mixer.

BIDS DESIRED

Paving Blocks—Brooklyn, N. Y.—Sept. 3, by E. Riegelmann, boro. pres., Boro Hall, 75,000 asphalt paving blocks.

Electric Generative Plant — Havre de Grace, Md.—Election Aug. 30, $300,000 bonds, electric generative plant. E. H. Gibson, pres. supervisors of election.

Underground Cable — Kenosha, Wis. — Sept. 2, by C. M. Osborn, city mgr., 330 ft. ten pair 20, 1,260 ft. eight pair 16, and 260 ft. four pair, conductor cable 14, B and S gauge.

Tractors and Snow Plows — Manitowoc, Wis.—Sept. 2, by A. H. Zander, city clk., one 5 ton crawler type tractor, weight 10,000 lbs., one 10 ton crawler type tractor, one 12 ft. and one 8 ft. "V" shaped snow plows.

Concrete, etc.—St. Paul, Minn.—Sept. 2, by H. W. Austin, city purch. agt., 10,565 sq.yd. asphaltic concrete for paving Capitol Ave. G. M. Shephard, city engr.

Mixer, Compressor and Drill — Tulsa, Okla. — Tibbets & Pleasant, 209 North Nogales St., in market for 1 yd. size concrete mixer, steam or oil engine, also air compressor and portable drills.

CONTRACTS AWARDED

Paving Blocks — Boston, Mass. — Supply Dept., 100,000 second hand granite paving blocks for Pub. Wks. Dept., to J. C. Coleman & Sons Co., 16 South Tremont St., Roxbury, $95.00 per M. delivered.

Crushed Stone—New Bedford, Mass.—About 250 tons (more or less), crushed stone, for Dept. Highways, to Fay Quarries, New Bedford, $2.89 per ton.

Asphaltic Cement — Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., 275 tons asphaltic cement, to Standard Oil Co., 26 Bway.

Grain Elevator — Vancouver, B. C. — Columbia Grain Elevator Co., grain elevator, timber workhouse, concrete storage bins, etc., to Dominion Constr. Co., 509 Richard St., $200,000.

Pipe — Vancouver, B. C. — Bd. Park Comrs., 32,500 ft. 6 in. c.i. pipe for fire protection in Stanley Park, to Gordon & Belyea, 157 Alexander St., $29,000.